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ABSTRACT

Studies and analyses conducted by the Assessment Center at Sacramento City College (SCC) during 1983 resulted in the data on SCC's students and services presented in this report. After section I sets forth the purpose of the report and section II reviews trends and priorities revealed by the center's activities, section III provides a statistical overview of the scope of services of the center. Section IV looks at the competency levels of SCC students as determined by the Stanford Test of Academic Skills (TASK), while section V provides data on the placement level of the assessed students, and section VI offers a profile of students taking the TASK between April 1 and October 31, 1983. Section VII presents an attrition/retention study of technology students conducted in spring 1983, followed by analyses of TASK scores in non-English department and English courses in sections VIII and IX. Section X presents the results of SCC's participation in the national norming process of the ASSET placement instrument. Sections XI reports on the results of English essay examinations, section XII provides the test results of biology students in various basic skill areas, section XIII provides an English course evaluation based on final grades, and section XIV analyzes the use of tutorial support services. Analyses of reading grade levels, English as a Second Language test scores, and the TASK scores of Higher Education Learning Package (HELP) students and Spanish course students are presented in sections XV through XVIII. Finally, information on the operation of student waivers is presented. (HB)

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SACRAMENTO CITY COLLEGE
Assessment Center
January 30, 1984

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MEMORANDUM

TO: Mr. Burris, Mr. Tucker, Mr. Nadler, Mr. Rodgers, & interested personnel

FROM: M. Haase and Patrick Caffrey

SUBJECT: Semi-Annual
Research Report - Part II
Assessment Procedures
Spring, Summer, and Fall 1983

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SACRAMENTO CITY COLLEGE
Assessment Center
January 30, 1984

SEMI-ANNUAL
RESEARCH REPORT - PART II
ASSESSMENT PROCEDURES
SPRING, SUMMER, FALL 1983

PURPOSE

This report covering Spring, Summer, and Fall semesters of 1983 has a sixfold purpose. First, it evaluates the effectiveness of assessment/placement activities on student "success" rates for the Spring Semester 1983; second, it provides an accountability of activities from April 1, 1983 to October 31, 1983; third, it provides current information regarding competency levels of our student population; fourth, it supplies statistical information regarding research activities; fifth, it reports the trends in the proposed expansion of assessment/placement and research services; and sixth, it projects the computer requirements and the financial resources necessary to implement needed changes.

In the interest of clarity and brevity only final results are discussed in this report. The tables are presented to verify statements. All preliminary data are available in the Assessment Center.

ASSESSMENT CENTER
TRENDS AND PRIORITIES

The need for expansion of assessment services on campus and the community increases with each report. The initial assessment contact with selected high schools in the Sacramento Unified School District has led to a recommendation that we expand this service to include all juniors at C.K. McClatchy High School during the Spring 1984 semester. Additional Sacramento and other feeder high schools have requested pilot assessment programs. It is projected that all of the Sacramento area Senior High schools will be actively involved in this program by Fall 1984.

The value of such a program to the student revolves around a plan to effect attitudinal changes. Past research has shown that many competent high school students place themselves in classes where they can sustain themselves with very little effort or challenge. If personalized counseling combined with an analysis of objectively defined academic needs is able to increase the students' self-esteem, then many nontraditional students who did not plan to participate in an accelerated student program or transfer after graduation may select to mainstream into a college program.

The evaluation of student proficiency levels and needs may eventually result in curriculum changes both at the high school and college level, but general agreement seems to be that any such change must be the result of a concerned faculty.

Projected needs and growth requires an upgraded computer capacity which will permit an elaborate diagnostic profile of student expressed educational goals related to proficiencies in both English and math. The potential value of such information can be seen in the foremat which was used in evaluating the data base derived from the ASSET norming program which was conducted during the Fall 1983 assessment period. (Page 32)

The new Educational Planning Form was developed through a cooperative effort of counseling, the Admissions Office, various research departments, and district Assessment Centers. The form will provide information concerning 22 elements which will reflect students' self-declared needs and goals. These aspirations of the student will be reflected in a foremat which will incorporate diagnostic math. and English proficiencies.

The concluding segment of the student profile includes an Educational Quotient derived from a weighting of the various components of the Educational Planning Form. This quotient attempts to either reinforce the students' academic plans or recommends that there should be additional counseling before or during the orientation process which proceeds actual course selection.

A district level Assessment Committee has been created by the Chancellor and charged with the responsibility of examining the value of some degree of uniformity among the diverse assessment practices now in effect in the district.

Early meetings have produced agreement in philosophy and a standardization of needed computer hardware. Each campus has accepted the concept that there will be similar but not necessarily uniform hardware. Future hardware orders will fall into these accepted guidelines. The software could be written at Sacramento City College, American River College, and District. The potential of this decision could represent considerable savings in future software expenses. Agreement of a uniform assessment instrument may or may not be possible, but there is consensus that the instrument used for placement should be nationally normed.

The Language and Literature Division is placing more emphasis on diagnostic and prescriptive assessment. The English 55, 56 courses are relying less on diagnostic tests and are using more individualized diagnostic materials.

The utilization of the Stanford Test of Academic Skills instrument decreased in number since the last comparable period, but when the number of the ASSET instruments used in the assessment norming process is included then there was a 6.9% overall increase in the utilization of placement instruments.

There was a decrease in the number of students taking the California Achievement Test 19C for entry into the Vocational Nursing Program. The utilization of the National League of Nursing Examination increased by 22 tests when compared to the July 12, 1983 research period.

Math. assessment is becoming an integral part of the assessment program. In the immediate future the math. assessment results will be reported in diagnostic form to the students along with a specific recommendation for course placement. Cutoffs and course placement criteria will be coordinated between the Mathematics Department and Assessment.

The Cooperative Mathematics series will be used for placement and proficiency purposes until new instruments are written. A committee composed of representatives from the State College, State University, and Community College levels has been founded and given the responsibility of creating a series of math. assessment instruments which could be widely used for placement and proficiency purposes throughout the state.

Occupationally oriented classes such as business English, data processing, accounting, typing, and shorthand, are increasing utilization of assessment. In addition, the Life Science, Fine Arts, and Social Science areas are participating in assessment in various ways. The Fine Arts area has shown an interest in testing for skills needed to succeed in art, etc. The effect which assessment and placement will have on retention in these areas will be objectively evaluated in subsequent research.

There is an increase in the need and utilization of vocational interest inventories such as the Strong Vocational Interest Inventory and Career Assessment Inventory by the Placement Office and Student Personnel. This process has been tempered by lack of funds. The supply of such instruments was exhausted in October 1983. The funding for the major part of this program was made possible in the past only by utilizing supply monies from various resources. Such special funding did not materialize this semester. This phase of the assessment program will have to be terminated unless there is a stable funding source.

There is a trend to reevaluate the acceptance of College Level Examination Program scores for unit value. At present only CSU, Sacramento, administers the College Level Examination Program. If we continue to accept the results of the College Level Examination Program and the Advanced Placement Examination of the A.C.T. program, then it might be advisable to administer these assessment programs at Sacramento City College as a service to our student population.

The Foreign Language Department has moved toward a uniform assessment/placement procedure. This process includes all language courses offered at Sacramento City College and involves assessment and placement prior to entering a course.

The following 12th week attrition figures reflect trends in the Occupational Technology Division since it came under the reading and math. assessment/placement and tutorial support process.

	Attrition Fall Semester 1982 (end of semester)	Attrition Fall Semester 1983 (11th week)
Aeronautics	9.6%	7%
Cosmetology	31.0%	17%
Drafting Technology	11.0%	20%

	Attrition Fall Semester 1982 (end of semester)	Attrition Fall Semester 1983 (11th week)
Electronics Technology	24.9%	8%
M.E.T.	4.5%	7%
Metal Technology	8.6%	9%
Photography	11.0%	3%
Printing Technology	21.6%	14%
Technology 50	15.0%	(a gain of 2 students)
Technology 60	14.0%	(lost 1 student)
Technology 61	19.0%	8%

Overall attrition rate was below 8% for the Fall 1983 semester. It was 16% in Fall of 1982. The data base reflects an initial enrollment of 3,154 and a retention of 2,632.

The increased income derived from reducing attrition in selected Occupational Technology courses as a result of increased retention was evaluated for the first time. It was found that in Aeronautics during the Fall 1982 semester an overall retention figure of 1% equaled $617.00. In Electronic Technology A 1% retention represented $241.00. These numbers become financially significant if increased retention can be related to the assessment/placement process.

SCOPE OF SERVICES

There continues to be changes in the utilization of assessment instruments when current usage is compared to the previous comparable period.

The shifts have been as follows:

	NOVEMBER 1, 1982	NOVEMBER 1, 1983
ASSET	0	891
Brown-Holtzman Survey Study Skills	3	76
California Achievement Test 19C	378	192
Cooperative Mathematics Test	1,066	1,561
Dental Assisting Vocational Certification Exam.	312	106
English Diagnostic #2	55	81
English Tactics Examination	0	121
Individualized English Diagnostic Examination	2,210	383
McGraw-Hill Reading	54	362
Nelson-Denny Reading Test	269	472
Nelson Reading Test	272	53
Prescriptive Reading Inventory	15	142
Spanish Challenge	47	12
Spanish Placement	12	55
Stanford Test of Academic Skills (TASK)	4,478	3,919
Tests of Adult Basic Education (TABE)	109	74
Wide Range Vocabulary	115	392
PERIOD TOTALS	9,395	8,892

TABLE 1A

NUMERICAL STATEMENT & SCOPE OF SERVICES

APRIL 1 TO OCTOBER 31, 1983

INSTRUMENTS ADMINISTERED		NUMBER ASSESSED
ASSET		891
Brown-Holtzman Survey of Study Habits and Attitudes		76
California Achievement Test 19C		192
Dental Assisting	27	
Licensed Vocational Nursing	159	
Dental Assisting/Licensed Vocational Nursing	6	
California State and Local Government Test		3
Career Ability Placement Survey		46
Career Assessment Inventory		76
Chemistry Placement		4
Cooperative Mathematics Test		1,561
Arithmetic	819	
Algebra I	531	
Algebra II	125	
Others	86	
Dental Assisting Vocational Certification Examination		106
Dental Hygiene Aptitude Test		22
Dental Hygiene National Certification Examination		21
Educational Developmental Laboratories Word Clues Test		38
Edwards Personal Preference Schedule		14
English Diagnostic #2		81
English Essay		1
English Tactics Examination		121
Educational Test Services Survey Instruments		23
French Placement		18
General Aptitude Test Battery (G.A.T.B.)		58
Handbook Test		28
Harbrace Diagnostic Test I		37
Holt-Rinehart Diagnostic Test		47
Individualized English Diagnostic Test		83
Kuder Occupational Interest Survey		14

TABLE 1A - CONTINUED

McGraw-Hill Reading Test		362
McGraw-Hill Vocabulary Test		181
Michigan Aural Test		6
Michigan Essay		11
Michigan Test of English Language Proficiency		608
National Institute for Automotive Service Excellence		206
National League of Nursing Test		184
National League of Nursing Achievement Test		19
Nelson-Denny Reading Test		472
Nelson Reading Test		53
Norton Diagnostic Test		41
Practical English Handbook Test		28
Prescriptive Reading Inventory		142
Reading for Understanding Senior Examination		86
Self-Directed Search		28
Sequential Tests of Educational Progress (S.T.E.P.) - Science		157
Spanish Challenge Test		12
Spanish Placement Test		55
Stanford Diagnostic Reading		19
Stanford Test of Academic Skills (TASK)		3,919
Strong-Campbell Interest Inventory		491
Subject A Diagnostic Examination		71
Temperament & Values Inventory		74
Tests of Adult Basic Education (T.A.B.E.)		392
Wide Range Vocabulary		214
Supplemental Assessment Processing		1,349
French	142	
English as a Second Language	266	
Tennessee Self Concept Scale	184	
Student Personnel	384	
Career Center Referral	247	
Enabling Center	126	
Total Instruments Administered		12,741

TABLE 1B

AREA UTILIZATION OF SERVICES

APRIL 1 TO OCTOBER 31, 1983

Allied Health	544
Social Science	187
Science, Math. and Engineering	131
Student Personnel	1.657
Technology	1,475
Language and Literature	7,650
English Second Language	891
Community	206
TOTAL	12,741

LEVELS OF COMPETENCY

An assessment sample which included 3,755 students in the April 1, 1983 to October 31, 1983 period revealed that 39.1% of our incoming and returning students were reading at or above the 13th grade level. This does not include students involved in the ASSET norming group. These students could not be included because there will be no national results until late Spring 1984.

The placement of students into classes as the result of the ASSET activities can be found in Table 10. An attempt was made to combine reading and English course placement to reflect curriculum and course needs.

The student population which was assessed by the TASK (Stanford Test of Academic Skills) had 19.0% (714 students) 1-2 years below the 13th year competency level, 19.2% (722 students) were 3 years below, and 22.7% (852 students) were four or more years below the 13th year level. In this latter group it was found that 8.8% (329) of the students were below the 7th grade reading competency level. (Table 2A)

The conversion chart which explains the relationship of raw reading and English scores to grade equivalency levels is found in Table 5.

A further analysis of changes in reading grade levels which have occurred in comparable research periods can be found in Table 2B. Even though the number of students in the data base varies each semester, a consistency remains in the percentages of students placing in each of the reading competency levels. The reading competency levels of Spring semester students seems to be consistently lower when compared to Fall semester students. The new data base to be derived from the Educational Planning Form will help in describing the nature of this phenomenon.

The continuing changes which have occurred in the number of students placing in each of the reading grade levels over the last three semesters are found in Table 3. There is a continuing decrease in the 13+ grade reading category.

TABLE 2A

DISTRIBUTION OF TOTAL TASK READING SCORES ACCORDING TO GRADE LEVELS

FALL 1982 and FALL 1983

GRADE LEVEL	1983 NUMBER[1]	1982 NUMBER[2]	1983 PERCENT[1]	1982 PERCENT[2]
13+	1,467	1,781	39.1	39.9
12 - 12.9	370	463	9.8	10.4
11 - 11.9	344	432	9.2	9.7
10 - 10.9	722	826	19.2	18.5
9 - 9.9	219	222	5.8	4.9
7 - 8.9	304	256	8.1	5.7
0 - 6.9	329	485	8.8	10.9
TOTAL	3,755[3]	4,465	100.0	100.0

---

[1] April 1, 1983 to October 31, 1983

[2] April 1, 1982 to October 31, 1982

[3] Total does not include 819 students who completed the ASSET program. Grade levels were not available for those students.

TABLE 2B

DISTRIBUTION OF TOTAL TASK READING SCORES ACCORDING TO GRADE LEVELS

SPRING 1982 and SPRING 1983

GRADE LEVEL	1983 NUMBER[1]	1982 NUMBER[2]	1983 PERCENT[1]	1982 PERCENT[2]
13+	1,077	709	34.8	34.7
12 - 12.9	310	204	10.0	10.0
11 - 11.9	274	201	8.9	9.8
10 - 10.9	630	396	20.4	19.3
9 - 9.9	180	127	5.8	6.2
7 - 8.9	265	159	8.6	7.8
0 - 6.9	354	249	11.5	12.2
TOTAL	3,090	2,045	100.0	100.0

[1] November 1, 1982 to March 31, 1983
[2] November 1, 1981 to March 31, 1982

TABLE 3

COMPARISON OF CHANGE IN TOTAL TASK READING SCORES ACCORDING TO GRADE LEVELS

GRADE LEVEL	FALL 1982, SPRING 1983	SPRING, SUMMER, FALL 1982
13	4.3	-.8
12 - 12.9	-.2	-.6
11 - 11.9	.3	-.5
10 - 10.9	-1.2	.7
9 - 9.9	-	.9
7 - 8.9	-.5	2.4
0 - 6.9	-2.7	-2.1

LEVEL PLACEMENT OF ASSESSED STUDENTS

The assessment/placement process for the current research period placed a total of 2,259 students in Level 1 classes (English 55 & 56). This is an increase of 14.6% when compared with the number placed in this level during the previous comparable report period. There was a decrease of 16.3% in the number of students who qualified for Level 2 (English 57) and a 21.6% decrease in the number eligible for Level 3 (English 1A). (Table 4) The variation in the number of students in the data base between those assessed and those placed was the result of some students taking only one part of the TASK.

Table 4 also reveals the following changes in reading placement when compared with the previous comparable research period: a 28.7% increase in the number of students placed in the basic reading level (English 70), a 15.4% increase in English 71, and a 11.1% decrease in the English 72, 73 competency area.

TABLE 4

COMPARISON OF TASK PLACEMENT LEVELS
(COMBINED READING AND ENGLISH SCORES)

APRIL 1 TO OCTOBER 31, 1983

(TOTAL - 4190)

	LEVEL 1		LEVEL 2	LEVEL 3
	2259			
COURSE(S)	(55)	(56)	(57 - 60)	(1A)
NUMBER	1301	958	834	1097
PERCENT	31.0	22.9	19.9	26.2

COMPARISON OF TASK PLACEMENT LEVELS
(READING ONLY)

(Total - 4574)

	GRADE EQUIVALENCY LEVELS		
	0 - 9	9 - 10.9	11+
		READING	
COURSE(S)	(70)	(71)	(72, 73, 74)
NUMBER	913	1095	2566
PERCENT	20.0	23.9	56.1

TABLE 5

CONVERSION TABLE SHOWING

RELATIONSHIP OF ENGLISH AND READING RAW SCORES TO GRADE LEVEL PLACEMENT

GRADE LEVEL	AVERAGE OR RAW SCORES READING	AVERAGE OR RAW SCORES ENGLISH
13+	60 - 78	54 - 69
12 - 12.9	56 - 59	52 - 53
11 - 11.9	52 - 55	50 - 51
10 - 10.9	42 - 51	44 - 49
9 - 9.9	38 - 41	40 - 43
7 - 8.9	32 - 37	26 - 39
1 - 6.9	0 - 31	0 - 25

PROFILE OF STUDENTS TAKING TASK TEST
APRIL 1 TO OCTOBER 31, 1983

There is now specific information about the student who takes the TASK. Tables 6A to 6B provide information as to day/night division enrollment, interest in occupational majors, non-English language usage in the home, interest in special program services, high school last attended, and location of test site.

This information permitted the creation of a performance data base by comparing reading and English scores with the high school of last attendance. The basic problem which is evident is in the depth or extent of this information.

Several high schools have asked for information regarding the objective data concerning student proficiencies to begin building a curriculum accountability data base.

High schools have expressed an interest in utilizing this information to describe the needs of students as far back as the 9th grade. The sharing of such information on a mutual basis could bring about a massive amount of objective information relevant to individual student needs.

A cursory inspection of the available data reveals that a total of 74.7% planned to attend day classes, while 18.3% intended to enroll in the evening division. This latter figure is down 6.8% from the previous period.

Some 60.5% of the students declared an interest in an occupational program or class, 25.7% spoke another language other than English at home, and 10.0% were interested in special support programs such as financial aids, etc. Matching such information with specific needs of individual students will soon become a procedural goal of assessment

The results regarding the high school last attended reinforced the previous finding that over half (57.4%) of our students who were assessed are from high schools outside the city of Sacramento. Statistics continue to reflect the fact that 90.4% of the assessment activity was at Sacramento City College. The Mather program (3.3%) is second in terms of assessment activity.

TABLE 6A

STUDENT DEMOGRAPHIC PROFILE

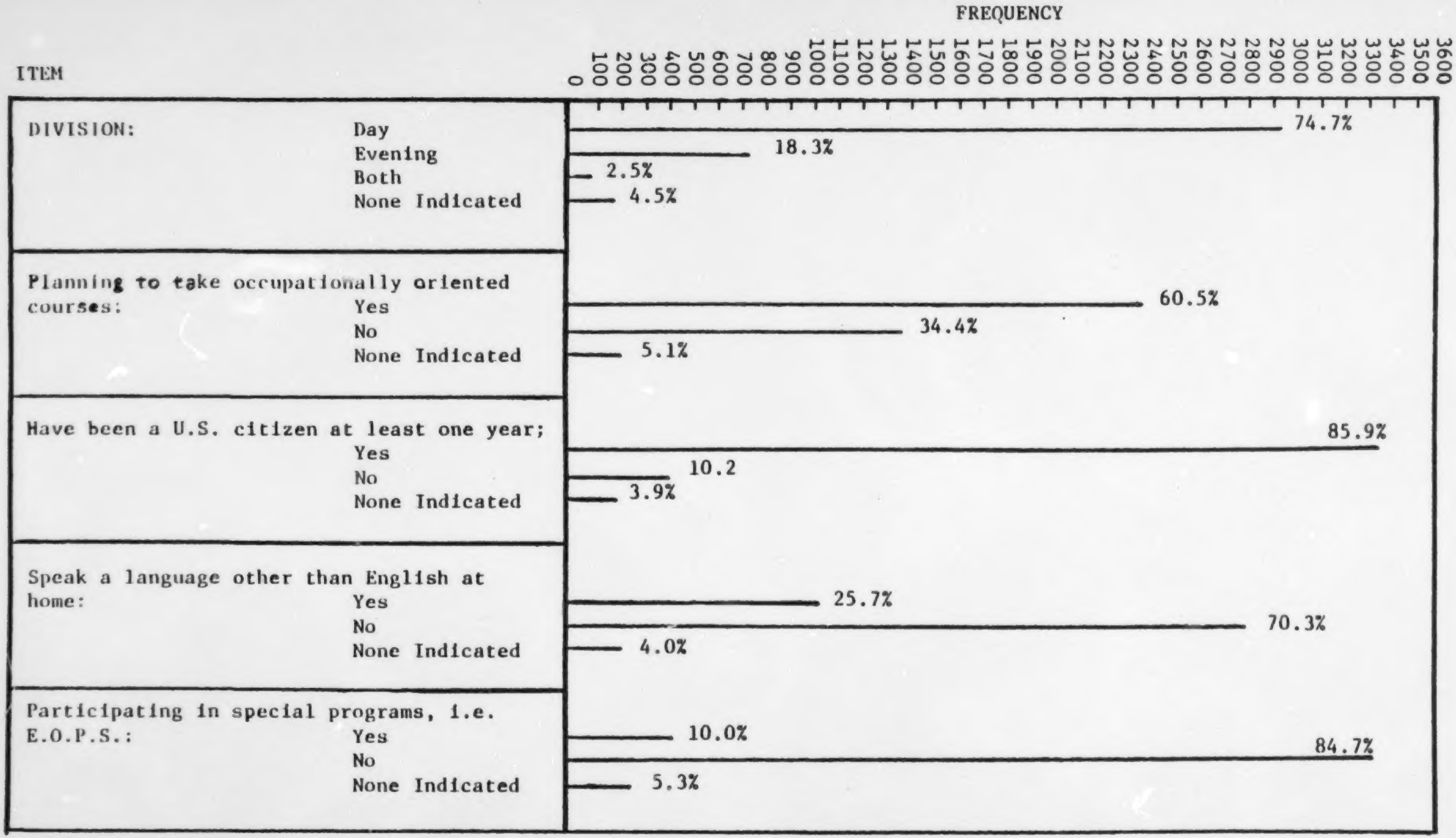
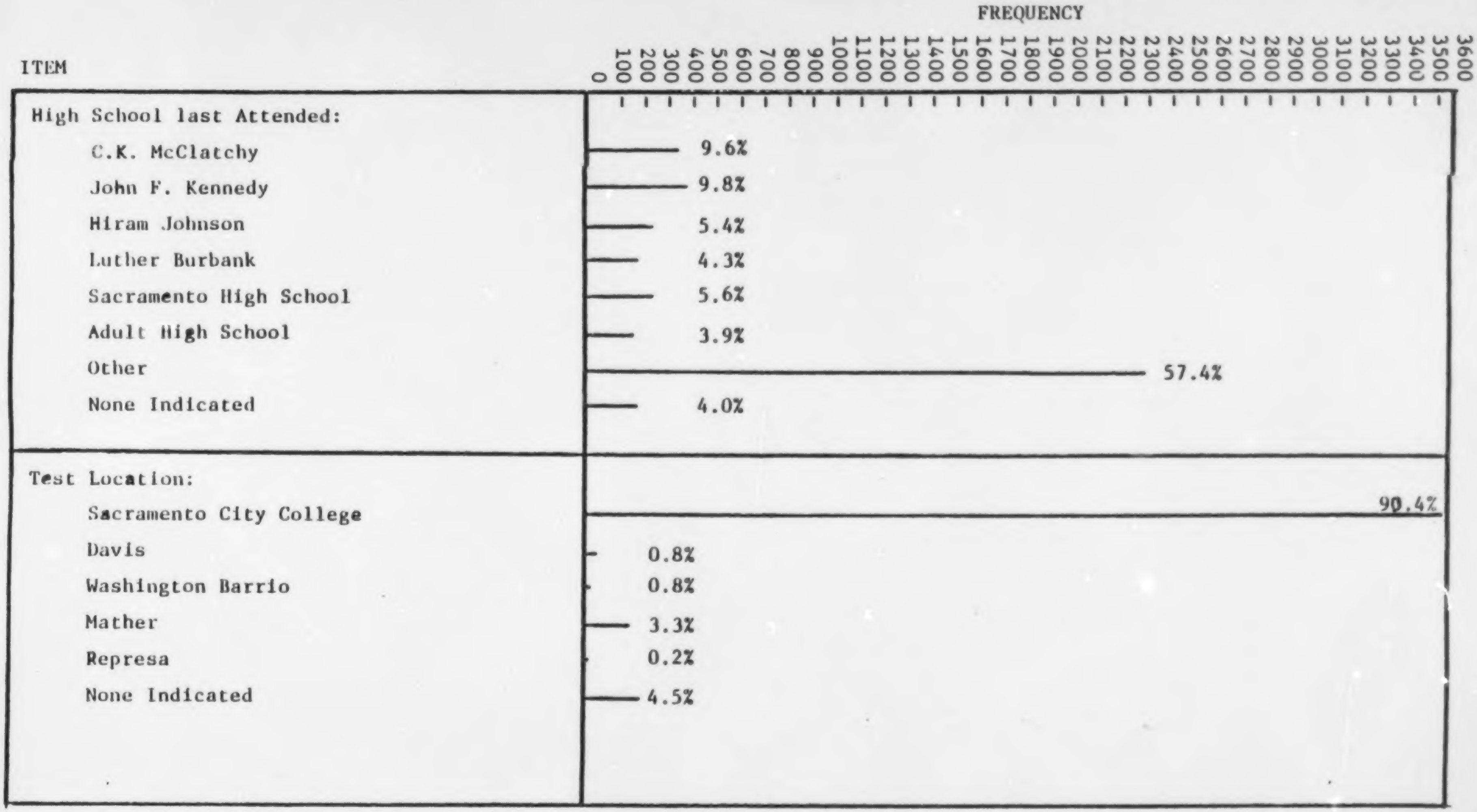


TABLE 6B

STUDENT HIGH SCHOOL AND TEST LOCATION



ATTRITION/RETENTION STUDY OF TECHNOLOGY STUDENTS
SPRING 1983

A standardization in research methodology has made it possible to study some of the changes which are occurring in selected occupationally oriented courses.

In the instance of Aeronautics and Cosmetology there are three consecutive semesters from which to compare data. While in Business General A, 50, Electronics Technology A, B, and M.E.T. 51 there are two semesters. Since these last programs could not be compared to similar or like semesters, the results may be rather distorted.

In Aeronautics there is evidence that students who do not read at or above the 13th year reading grade proficiency level do not pass the course with an "A" or "B" grade. An 11th grade reading proficiency level was required by a student to receive a "C" grade in the Fall 1982 and Spring 1983 semesters. This reading grade level was .6 points higher than was needed in Spring 1982.

The reading proficiency level needed for a "C" grade in Aeronautics or higher for Spring 1983 was 11.6. It was 11.9 in Fall 1982.

There were specific changes in the nature of the "drop" student in both the 1-4th week and 5-18th week periods. The "drop" student in the 1-4th week of Spring 1983 was 2 grade levels lower than in Fall 1982. This figure was the highest in 3 semesters. It was 10.7 in Spring 1982.

The reading proficiency level of the "NC" student has risen 1.1 reading grade levels over the Fall 1982 and 1.0 reading proficiency grade levels over Spring 1982.

When the percentage of grades earned by Aeronautics students are compared, the following results appear:

	SPRING 1982	FALL 1982	SPRING 1983
A	17.6	14.3	3.6
B	26.3	42.8	50.0
C	22.8	27.0	28.6
NC	33.3	15.9	17.8

There are several changes which are beginning to appear. The number of students enrolling in Aeronautics seems to be decreasing. Students who are now being added after regular registration are found to be reading below the proven proficiency levels needed to succeed in the course. The student success rate during the Spring 1983 semester indicate that students in this group will not pass the course even with tutorial help. There is a need to look at the success rate of these students.

The effectiveness of the concurrent enrollment/tutorial support program which was organized for the students who do not possess the reading and math. proficiency levels also needs to be evaluated. Early reports from the Occupational Technology Division reveal that 96% of the students who did not possess needed academic proficiency but were still allowed to enroll in selected classes were ultimately unsuccessful. The Division has defined a need to provide more academic emphasis on study skills to correct the problem.

The assessment/placement process for Aeronautics began in Fall of 1982 on a trial basis. Since then it has become more difficult to receive an "A" grade. Many former "A" students now earn "B" grades. The percent of students receiving "C" grades has increased and the percent of the students receiving "NC" grades has dropped sharply from a high of 33.3% in Spring 1982 to 17.8% in Spring 1983.

The Aeronautics department has expanded contact with the community in an attempt to explain the program. The new Educational Planning Form will be used to contact all potential Aeronautics students. This may be particularly important when students scores appear not to be high enough to enter the program.

The retention rate percentages in Aeronautics are as follows:

Spring 1982 - 72.2
Fall 1982 - 74.1
Spring 1983 - 62.2

The cosmetology program is experiencing similar changes. It does not appear to be effective to enroll or add students reading below the low 10th grade level. Students who were reading at the lowest proficiency level (7.5) dropped in the first 1-4th week period. The next lowest level student (9.3) received a "NC" grade in Spring 1983.

The proficiency level of the currently enrolled Cosmetology student seems to be lower than in Spring 1982. It was also easier to earn grades in Spring 1983 when compared to both the Fall and Spring 1982 semesters. The comparative reading levels to grades earned are as follows:

	SPRING 1982	FALL 1982	SPRING 1983
A	13.0	-	12.9
B	10.5	12.3	11.9
C	10.0	12.0	10.1
D	6.9	-	-
NC	-6.9	11.6	9.3

Decreasing data bases will have an effect on this comparison, but one should be able to compare percentages with like semesters.

	SPRING 1982	FALL 1982	SPRING 1983
A	28.0	2.9	9.5
B	40.0	50.0	38.1
C	24.0	32.4	47.6
D	4.0	-	-
NC	4.0	14.7	4.8

The overall retention rates being experienced by Cosmetology 50 have risen from a low of 49.9% in Spring 1982 to 72.3% in Fall 1982 and 63.6% in Spring 1983.

In both Aeronautics and Cosmetology there seems to be general academic proficiency weakness in Spring semesters. The phenomenon might well constitute a study for it has had and may continue to have an impact on tutorial support funding.

The information regarding the retention percentages in the following courses is based only on Fall 1982 and Spring 1983 semesters.

	FALL 1982	SPRING 1983
Business General A	53.7	39.4
" " 50	57.0	67.8
Electronics Technology A	48.6	55.9
" " B	36.4	54.5
Mech. Elect. Technology 51 (61 Spring 1983)	85.7	91.3

Again the problem of being unable to use comparable semesters is present in this research. Another factor is the impact of the waiver system in that while the percent of the students enrolled in the Occupational Technology courses is increasing, some students who have been waived using prior experience, etc. in courses such as Electronics Technology A are receiving "A" and "B" grades. The fact that there is not a high percentage of assessed students in these categories reflects quite well on the existing waiver process.

The impact of the mathematics proficiency factor will probably have to wait for the new computer system. When the new hardware is operable, then software can differentiate the impact of each of the currently used proficiency level cutoffs.

TABLE 7A

GUIDE TO STATISTICAL FORMAT

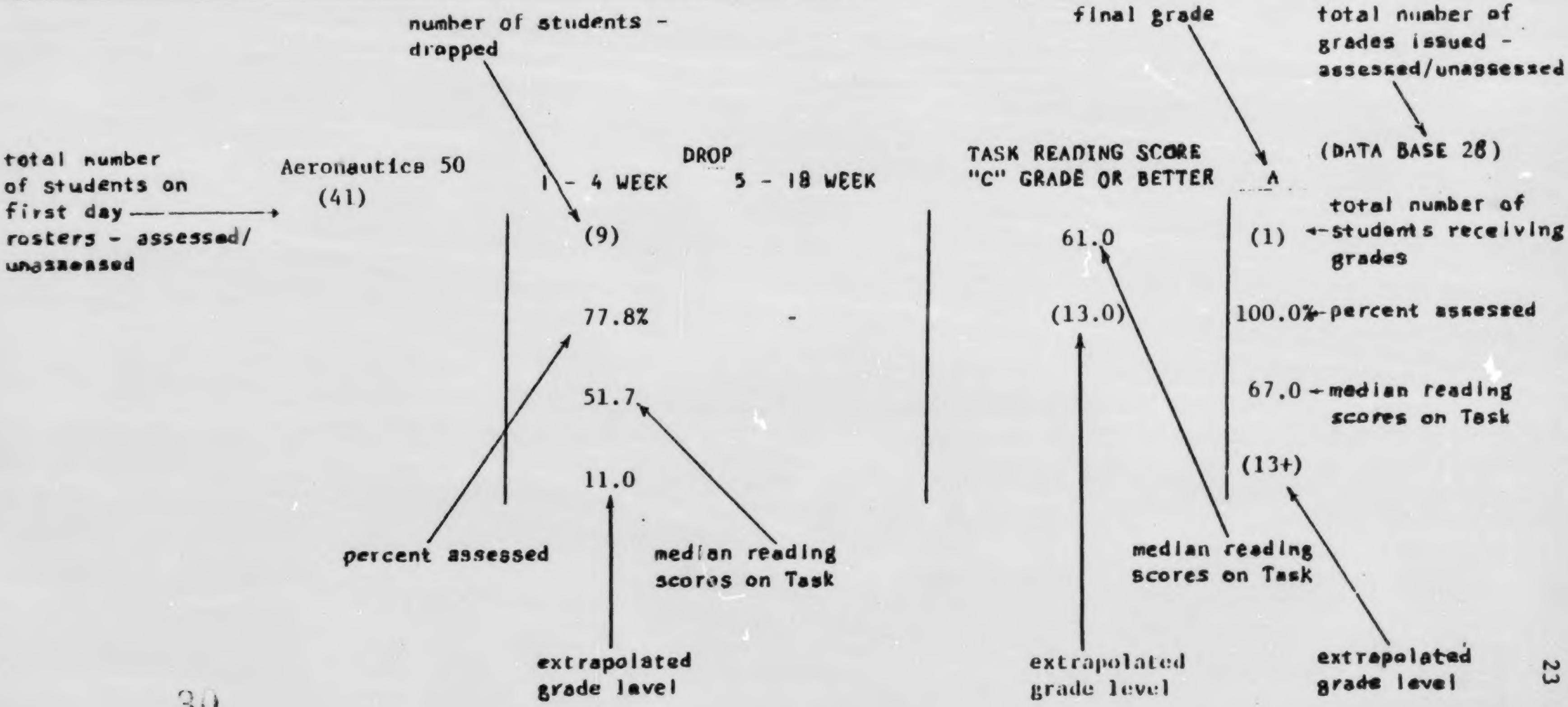

number of students - dropped
final grade
total number of grades issued - assessed/unassessed
total number of students on first day rosters - assessed/unassessed
Aeronautics 50
(41)
DROP
1 - 4 WEEK
5 - 18 WEEK
TASK READING SCORE "C" GRADE OR BETTER
A
(DATA BASE 28)
(9)
77.8%
-
51.7
11.0
61.0
(13.0)
(1)
total number of students receiving grades
100.0%
percent assessed
67.0
median reading scores on Task
(13+)
percent assessed
median reading scores on Task
extrapolated grade level
median reading scores on Task
extrapolated grade level
extrapolated grade level

TABLE 7B

ATTRITION/RETENTION STUDY OF TECHNOLOGY STUDENTS

	DROP		TASK READING SCORE "C" GRADE OR BETTER	ADDS	A	B	C	D	NC	INC
	1 - 4 WEEK	5 - 18 WEEK					(DATA BASE 28)			
Aeronautics 50 (41)	(9)	(8)		4	(1)	(14)	(8)	-	(5)	-
	77.8%	62.5%			100.0%	64.3%	37.5%	-	60.0%	-
	51.7	55.6	61.0		67.0	62.8	53.7	-	65.3	-
	(11.0)	(12.0)	13+		(13+)	(13+)	(11.6)	-	(13+)	-
							(DATA BASE 43)			
Business-Gen. A (94)	(20)	(46)		15	(6)	(16)	(11)	3	(50)	2
	75.0%	69.6%			83.3%	93.8%	90.9%	66.7%	100.0%	100.0%
	42.2	46.7	46.4		46.0	50.5	40.3	50.5	40.4	51.0
	(10.0)	(10.5)	(10.4)		(10.4)	(10.9)	(9.6)	(10.9)	(9.6)	(10.9)
							(DATA BASE 99)			
Business-Gen. 50 (120)	(20	(27)		26	(20)	(38)	(16)	(7)	(17)	1
	90.0%	77.8%			90.0%	84.2%	87.5%	100.0%	88.2%	00.0%
	58.0	53.9	57.9		60.7	57.3	55.5	55.6	57.1	-
	(12.6)	(11.6)	(12.6)		(13+)	(12.3)	(12.0)	(12.0)	(12.3)	-
							(DATA BASE 21)			
Cosmetology 50 (27)	(4)	(8)		6	(2)	(8)	(10)	-	1	-
	50.0%	62.5%			50.0%	75.0%	90.0%	-	100.0%	-
	25.5	48.4	48.3		59.0	54.8	42.7	-	39.0	
	(7.5)	(10.6)	(10.6)		(12.9)	(11.9)	(10.1)	-	(9.3)	-

TABLE 7B - CONTINUED

	DROP		TASK READING SCORE	ADDS			(DATA BASE 66)			
	1 - 4 WEEK	5 - 18 WEEK	"C" GRADE OR BETTER		A	B	C	D	NC	INC
Elect. Tech. A (80)	(19)	(33)		38	(17)	(17)	(8)	(8)	(16)	-
	52.6%	60.6%			47.1%	35.3%	50.0%	62.5%	50.0%	-
	45.4	55.4	59.7		63.1	60.3	52.0	48.2	52.5	-
	(10.3)	(11.9)	(13.0)		(13+)	(13.0)	(11.0)	(10.6)	(11.3)	-
							(DATA BASE 18)			
Elect. Tech. B (25)	(5)	(10)		8	(7)	(5)	(3)	(18)	(3)	-
	60.0%	90.0%			57.1%	80.0%	66.7%	-	66.8%	-
	54.7	47.4	42.2		43.3	36.3	52.0	-	53.0	-
	(11.9)	(10.5)	(10.0)		(10.1)	(8.8)	(11.0)	-	(11.3)	-
							(DATA BASE 42)			
Mech. Elect. Tech. (40) 61	(3)	(1)		6	(5)	(18)	(19)	-	-	-
	33.3%	100.0%			80.0%	77.8%	79.0%	-	-	-
	47.0	65.0	60.6		68.0	63.5	55.9	-	-	-
	(10.5)	(13+)	(13+)		(13+)	(13+)	(12.0)	-	-	-

ANALYSIS OF TASK SCORES IN NON-ENGLISH DEPARTMENT COURSES

SPRING 1983

There has been an increase of 4.4% in the number of students in the college who have been assessed when compared to the Fall Semester 1982 research period. The total percent assessed in the Fall Semester 1982 was 55.9% in Fall 1983 it has increased to 60.3%.

The areas utilizing assessment services ranged from 99.1% in the H.E.L.P. courses to 47.4% in Anthropology 1. (Table 8)

The impact of increased assessment by Business General, mathematics, Life Science and selected social science courses and the tightening of assessment/placement activities used by the Occupational Technology courses has had a profound impact upon the extent of the assessment/placement process.

TABLE 8

COMPARATIVE ANALYSIS OF TASK SCORES, PERCENT ASSESSED, AVERAGE READING AND ENGLISH SCORES IN NON-ENGLISH DEPARTMENT COURSES

SUBJECT	NUMBER ENROLLED	NUMBER ASSESSED	PERCENT ASSESSED	AVERAGE READING SCORES	AVERAGE ENGLISH SCORES
Administration of Justice 51 & 52	588	302	51.4	50.5	42.8
Aeronautics 51 & 52	67	39	58.2	57.0	44.6
Anthropology 1	116	55	47.4	60.3	49.8
Art 10	237	154	65.0	56.7	50.9
Biology 10	302	229	75.8	58.4	52.4
Business General 51	33	22	66.7	61.7	55.3
Chemistry 1A	140	76	54.3	55.0	51.4
Economics 1A	406	205	50.5	58.8	53.4
Family Consumer Science 10	562	314	55.9	55.5	50.3
Geography 1	83	47	56.6	55.4	50.0
H.E.L.P.	111	110	99.1	46.5	37.7
History 17	346	200	57.8	60.1	51.8
History 18	728	447	61.4	59.3	52.8
Humanities 1 & 2	350	211	60.3	59.4	53.1
Mathematics W & X	472	299	63.4	47.7	40.9
Mathematics A	427	243	56.9	56.0	51.1
Mech.-Elec.-Technology 62	42	33	78.6	60.7	47.3
Music 1 & 11	162	87	53.7	53.9	48.7
Philosophy 4 & 5	279	196	70.3	62.5	54.7

TABLE 8 - CONTINUED

SUBJECT	NUMBER ENROLLED	NUMBER ASSESSED	PERCENT ASSESSED	AVERAGE READING SCORES	AVERAGE ENGLISH SCORES
Photography 40	73	37	50.7	58.7	50.5
Physical Science 1	68	33	48.5	61.7	54.3
Physics 5A	45	22	48.9	56.8	53.0
Political Science 1	484	331	68.4	58.0	52.6
Printing Technology 50	45	22	48.9	59.9	53.2
Psychology 1	448	294	65.6	57.8	51.3
Social Science 56	145	82	56.6	50.3	43.2
Sociology 1A	400	237	59.3	55.1	49.2
Sociology 3	260	169	65.0	53.6	48.4
Speech 1	318	186	58.5	60.4	52.7
Theatre Arts 1 & 2	98	59	60.2	59.2	52.9
Technology 50	85	43	50.6	58.8	50.5
Technology 53	16	12	75.0	52.8	39.3
Technology 55	49	33	67.4	49.2	41.8
Technology 57	16	8	50.0	46.7	42.9
Technology 65A	33	10	30.3	58.3	48.4
TOTALS	8,034	4,847	60.3		

ANALYSIS OF AVERAGE TASK SCORES IN ENGLISH COURSES BY LEVELS AND BY GRADES

SPRING 1983

The effect of mandatory assessment and controlled placement of students continues to influence the success rates of students in reading and English courses.

There has been a gradual increase in proficiency levels needed to earn satisfactory final grades in all spectrums of English courses.

Students who receive a passing grade in English 1A possessed a 13th year reading proficiency level. The "C" student in Engish 57 was between the 12.9 and 13th year level, the successful English 56 student was at the top of the 10th grade level, while the English 55 student needed a 9.9 reading grade level to receive credit.

There was a concentration of students around the mean in each category. Inspection of the raw reading and English scores and grades revealed that the deviation from the mean was not significant.

Students receiving "A" grades in English 1A possessed English scores equal to the 13th grade level. Students in English 57 did not receive a passing grade unless English proficiency skills approximated the top of the 12th year, while the English 56 student had a proficiency component equal to the 10.2 grade level. The lowest level composition class (English 55) required an average English proficiency level at the 7.7th grade level.

The reading courses reflected much the same trend in that it required a 13th year reading proficiency level to receive credit for English 72, a 9.5 reading grade level to receive a satisfactory grade in English 71, and a 7th + 8th level to receive credit for English 70.

The English 72 courses required a 11.9 English proficiency grade level, English 71 an 8.8 level, while English 70 required a 7.1 grade level.

In summary it seems the existing structure of English support courses do little for those students whose proficiency levels were below the minimum needed for academic success.

TABLE 9A

COMPARISON OF AVERAGE TASK READING SCORES IN ENGLISH COURSES BY CLASS LEVELS AND BY GRADES

DISTRIBUTION ACCORDING TO READING SCORES

	A	B	C	D	NC	INC	IP	CP****
English 1A	***69.2	67.9	66.5	66.9	67.1	64.6	-	-
**(332)	*(55)	(98)	(96)	(46)	(32)	(5)	-	191
English 57	61.7	60.3	59.2	58.8	59.6	66.0	-	-
(245)	(30)	(82)	(85)	(18)	(27)	(3)	-	120
English 56	-	-	51.3	-	51.7	-	-	-
(198)	-	-	(153)	-	(45)	-	-	125
English 55	-	-	40.9	-	38.4	43.0	-	-
(239)	-	-	(167)	-	(71)	(1)	-	15
English 72	65.9	59.3	63.3	51.0	56.0	-	-	-
(37)	(9)	(16)	(9)	(1)	(2)	-	-	7
English 71	47.0	46.0	48.8	40.5	48.8	46.1	-	-
(121)	(37)	(33)	(16)	(2)	(26)	(7)	-	27
English 70	-	-	32.9	-	25.1	30.0	25.3	-
(125)	-	-	(77)	-	(22)	(1)	(25)	9

*The enclosure in parentheses under each average score indicates the number of students who received that grade.

**Indicates total number assessed.

***Indicates average scores.

****CP stands for "Class Placement." This number indicates the students who were placed in the class by promotion or by waiver.

TABLE 9B

COMPARISON OF AVERAGE TASK ENGLISH SCORES IN ENGLISH COURSES BY CLASS LEVELS AND BY GRADES

DISTRIBUTION ACCORDING TO ENGLISH (COMPOSITION) SCORES

	A	B	C	D	NC	INC	IP	CP****
English 1A	***61.6	61.0	59.8	59.1	59.3	60.4	-	-
**(332)	*(55)	(98)	(96)	(46)	(32)	(5)	-	191
English 57	54.7	53.3	53.4	51.4	52.3	52.7	-	-
(245)	(30)	(82)	(85)	(18)	(27)	(3)	-	121
English 56	-	-	45.7	-	45.2	-	-	-
(198)	-	-	(153)	-	(45)	-	-	125
English 55	-	-	33.1	-	31.9	40.0	-	-
(239)	-	-	(167)	-	(71)	(1)	-	15
English 72	52.8	52.1	51.3	35.0	50.0	-	-	-
(37)	(9)	(16)	(9)	(1)	(2)	-	-	7
English 71	43.9	38.3	39.0	33.5	39.7	36.3	-	-
(118)	(36)	(33)	(15)	(2)	(25)	(7)	-	27
English 70	-	-	33.6	-	28.2	28.0	23.9	
(119)	-	-	(73)	-	(21)	(1)	(24)	9

*The enclosure in parentheses under each average score indicates the number of students who received that grade.

**Indicates total number assessed.

***Indicates average scores.

****CP stands for "Class Placement." This number indicates the students who were placed in the class by promotion or by waiver.

ASSET RESEARCH
FALL 1983

In August 1983 Sacramento City College participated in the national norming process of the ASSET instrument at the request of A.C.T. A total of 891 students constituted the research data base.

The placement criteria to be used in recommending English and reading courses had to be determined. An attempt was made to relate ASSET raw scores to the TASK scores which have been proven to be effective in the assessment/placement process. This was accomplished by asking 72 students to take both TASK and ASSET. The combined data were used to derive placement criteria for the ASSET. The test administration times were varied to negate the fatigue factor. The final cutoffs used can be found in Table 10.

Information received from A.C.T. regarding the placement scores used in Los Angeles could not be used since our placement criteria derived from the TASK appeared to be more demanding for student placement into the English 1A courses. There was also a problem which had to be resolved with the criteria used for placement into English 56.

The second phase of the norming process was to select English and math. courses and assess relevant skills prior to the awarding of final grades. The equating of proficiency levels with course grades will be used to determine the validity of the English and math. items chosen when the ASSET was constructed. This second phase should add another 800 students to the data base.

The third phase encompasses an evaluation of grade success for all 891 students in the original data group. This in effect constitutes a follow-up of student performances. This process parallels the research procedure used by Sacramento City College over the last 5 years.

Department personnel designed software to collate the massive amount of information extracted from the ASSET Educational Planning Form. This research model made it possible to have an immediate evaluation of all responses.

The informational areas selected to be evaluated include the following: amount of education planned, transfer information, enrollment plans, employment plans, most important reason for attending this semester, primary language information, the type of high school certificate possessed, areas student need help with by general population and majors, and test results of all students from each feeder high school.

The latter part of this summary evaluated each of the six skill proficiencies possessed by students in each declared major. This data was arranged in order from the highest to lowest scores. Such information should be invaluable to counseling, division management, and tutorial services.

A hypothetical academic profile which could be retrieved from this type of information would be as follows: a 27 year old female, veteran, Mexican-American speaks Spanish, has a high school education begun at C.K. McClatchy, has no college units, has studied business math. with a "D" grade in high school and repeated the course with an "A" in adult education, plans to enter in the next semester as a full time student, declares herself to be an accounting major, is uncertain of the academic choice but declares her second interest in the counseling field, is working over 31 hours a week, plans to transfer to Sacramento State but wants a degree from Sacramento City College before transfer, has a physical disability, has been out of school for six years, wants to satisfy general education requirements, wants help in obtaining day care information, choosing a major, work experience credit, career planning, has an interest in an ethnic club, has an assessed difficulty in English reading skills but has sufficient math. skills to begin her declared major.

This volume of information will be in the hands of the students in about 10 minutes after completion of the assessment process. The student will have several days before the orientation appointment to evaluate and if need be revise the projected selection of courses and majors.

Not only will there be an immediate benefit to the student and each college, since all the colleges in Los Rios have adopted this form for use with students, but the value to the District office will be quite profound. Los Rios District has already begun creating the software support component and will soon have a district data base which will fill research needs for years to come.

TABLE 10

ASSET NORMING GROUP
COURSE PLACEMENT CRITERIA

COMPARISON OF ASSET PLACEMENT LEVELS (COMBINED READING AND ENGLISH SCORES)

(TOTAL - 819)

	LEVEL 1		LEVEL 2	LEVEL 3
	450			
COURSE(S)	(55)	(56)	(57 - 60)	(1A)
NUMBER	223	227	157	212
PERCENT	27.2	27.7	19.2	25.9

COMPARISON OF ASSET PLACEMENT LEVELS (READING ONLY)

(TOTAL - 819)

	READING		
COURSE(S)	(70)	(71)	(72, 73, 74)
NUMBER	175	174	470
PERCENT	21.4	21.2	57.4

ENGLISH COURSES

		(70)	(71)	(72)	(72+)
Reading:	0 - 12	13 - 17	18 - 21	22 - 28	29+
English:		0 - 35	36 - 42	43 - 46	47+
	70 + 55	(55)	(56)	(57)	(1A)

MATH. COURSES

Numerical Skills	0 - 20	Math W - X
	21 - 32	A
Elementary Algebra	0 - 15	A
	16 - 25	13
Intermediate Algebra	0 - 15	13
	16 - 25	College Algebra
College Algebra	0 - 15	" "
	16 - 25	Calculus

COURSE PLACEMENT

Advanced English Skills

0 - 27	28 - 34	35
Level One	57	1A

TABLE 11

MAJOR CODES FOR ASSET PROGRAM

1. Accounting
2. Administration of Justice
3. Advertising
4. Art
5. Aviation Maintenance Technician
6. Bookkeeping and Office Management
7. Business (General)
8. Communications, General
9. Communications, Photography Option
10. Cosmetology
11. Data Processing
12. Dental Assisting
13. Dental Hygiene
14. Drafting Technology
15. Early Childhood Education
16. Electronics Technology
17. Ethnic Studies
18. Family & Consumer Science
19. Fine Arts
20. General Studies
21. General Technology
22. Humanities
23. Instructional Assisting: Bi-Lingual/Bi-Cultural, General, Special Education
24. Languages and Literature
25. Library Technology
26. Management
27. Mechanical-Electrical Technology
28. Merchandising
29. Metals Industry Technology
30. Music
31. Nursing, ADN
32. Nursing, LVN
33. Office Administration-Clerical
34. Office Administration-General Secretarial
35. Office Administration-Legal Secretarial
36. Office Administration-Medical Secretarial
37. Physical Education
38. Printing Technology
39. Real Estate
40. Science, Mathematics & Engineering
41. Social Science
42. Social Services Assisting
43. Theatre Arts
44. Transportation
45. Women's Studies
46. Other
47. Not Listed (student did not write in major) or Undecided

TABLE 12A

ENROLLMENT PLANS, DIVISION, EMPLOYMENT PLANS - BY MAJOR

MAJOR (Raw Number)	ENROLLMENT PLANS (RAW NUMBER)			DIVISION (RAW NUMBER)				EMPLOYMENT PLANS (RAW NUMBER)						
	Full time	Part time	No response	Day	Night	Both	No response	None	1 to 10 hrs./wk.	11 to 15 hrs./wk.	16 to 20 hrs./wk.	21 to 30 hrs./wk.	31 or more	No response
Accounting (55)	45	9	1	36	9	8	2	16	3	4	12	8	11	1
Administration of Justice (77)	51	23	3	55	12	5	5	19	8	9	16	6	18	1
Advertising (2)	0	2	0	1	1	0	0	0	0	0	0	1	1	0
Art (32)	22	6	4	25	2	2	3	11	2	1	10	5	3	0
Aviation Maintenance Technology (26)	21	4	1	23	0	2	1	11	0	2	4	4	5	0
Bookkeeping and Office Management (5)	3	2	0	2	2	1	0	1	0	0	1	1	1	1
Business (General) (254)	179	67	8	193	28	26	7	78	24	29	40	35	44	4

TABLE 12A - CONTINUED

MAJOR (Raw Number)	ENROLLMENT PLANS (RAW NUMBER)			DIVISION (RAW NUMBER)				EMPLOYMENT PLANS (RAW NUMBER)						
	Full time	Part time	No response	Day	Night	Both	No response	None	1 to 10 hrs./wk.	11 to 15 hrs./wk.	16 to 20 hrs./wk.	21 to 30 hrs./wk.	31 or more	No response
Communications, General (26)	21	5	0	20	2	3	1	6	1	6	8	3	2	0
Cosmetology (22)	16	4	2	19	2	1	0	9	1	2	5	3	2	0
Data Processing (144)	104	34	6	109	16	14	5	48	12	13	26	22	21	2
Dental Assisting (18)	13	4	1	13	2	2	1	5	4	2	5	1	1	0
Dental Hygiene (12)	8	4	0	9	1	2	0	3	4	2	2	1	0	0
Drafting Technology (8)	6	2	0	4	1	1	2	1	0	1	3	1	2	0
Early Childhood Education (19)	11	7	1	15	2	1	1	7	1	1	5	3	1	1

TABLE 12A - CONTINUED

MAJOR (Raw Number)	ENROLLMENT PLANS (RAW NUMBER)			DIVISION (RAW NUMBER)				EMPLOYMENT PLANS (RAW NUMBER)						
	Full time	Part time	No response	Day	Night	Both	No response	None	1 to 10 hrs./wk.	11 to 15 hrs./wk.	16 to 20 hrs./wk.	21 to 30 hrs./wk.	31 or more	No response
Electronics Technology (41)	32	8	1	25	7	8	1	17	1	3	7	7	5	1
Ethnic Studies (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Family and Consumer Science (4)	2	2	0	3	1	0	0	2	0	1	0	1	0	0
Fine Arts (3)	2	1	0	2	1	0	0	1	1	0	0	0	1	0
General Studies (33)	21	12	0	22	2	8	1	7	3	4	7	5	6	1
General Technology (4)	3	0	1	2	1	1	0	2	0	0	1	0	0	1
Humanities (1)	1	0	0	1	0	0	0	1	0	0	0	0	0	0

TABLE 12A - CONTINUED

MAJOR (Raw Number)	ENROLLMENT PLANS (RAW NUMBER)			DIVISION (RAW NUMBER)				EMPLOYMENT PLANS (RAW NUMBER)						
	Full time	Part time	No response	Day	Night	Both	No response	None	1 to 10 hrs./wk.	11 to 15 hrs./wk.	16 to 20 hrs./wk.	21 to 30 hrs./wk.	31 or more	No response
Instructional Assisting (3)	2	1	0	2	1	0	0	1	0	0	2	0	0	0
Languages and Literature (38)	23	12	3	25	8	1	4	12	3	2	10	3	7	1
Library Technology (2)	2	0	0	1	0	1	0	2	0	0	0	0	0	0
Management (25)	16	9	0	11	6	7	1	7	3	1	4	2	7	1
Mechanical-Electrical Technology (24)	16	7	1	15	3	5	1	11	2	3	2	1	5	0
Merchandising (8)	5	3	0	7	0	1	0	1	2	1	2	0	2	0
Metals Industry Technology (5)	4	1	0	3	2	0	0	3	0	0	0	1	1	0

TABLE 12A - CONTINUED

MAJOR (Raw Number)	ENROLLMENT PLANS (RAW NUMBER)			DIVISION (RAW NUMBER)				EMPLOYMENT PLANS (RAW NUMBER)						
	Full time	Part time	No response	Day	Night	Both	No response	None	1 to 10 hrs./wk.	11 to 15 hrs./wk.	16 to 20 hrs./wk.	21 to 30 hrs./wk.	31 or more	No response
Music (21)	12	9	0	16	2	2	1	7	2	1	3	3	5	0
Nursing, ADN (41)	31	10	0	32	5	4	0	21	4	1	11	3	1	0
Nursing, LVN (22)	17	4	1	16	1	4	1	14	3	1	3	1	0	0
Office Administration-Clerical (14)	7	5	2	9	4	0	1	3	4	1	1	1	2	2
Office Administration-General Secretarial (24)	17	5	2	17	4	0	3	12	2	2	3	0	4	1
Office Administration-Legal Secretarial (6)	2	3	1	5	0	0	1	1	0	1	2	1	1	0
Office Administration-Medical Secretarial (3)	3	0	0	3	0	0	0	2	0	0	0	1	0	0

TABLE 12A - CONTINUED

MAJOR (Raw Number)	ENROLLMENT PLANS (RAW NUMBER)			DIVISION (RAW NUMBER)				EMPLOYMENT PLANS (RAW NUMBER)						
	Full time	Part time	No response	Day	Night	Both	No response	None	1 to 10 hrs./wk.	11 to 15 hrs./wk.	16 to 20 hrs./wk.	21 to 30 hrs./wk.	31 or more	No response
Photography (9)	6	3	0	5	2	2	0	3	1	0	3	0	2	0
Physical Education (31)	27	3	1	25	1	2	3	12	2	5	3	4	4	1
Printing Technology (10)	4	6	0	6	3	1	0	1	0	0	1	5	3	0
Real Estate (4)	3	0	1	4	0	0	0	2	0	0	1	1	0	0
Science, Mathematics & Engineering (157)	115	36	6	119	18	11	9	48	15	19	29	24	17	5
Social Sciences (72)	48	22	2	51	15	5	1	21	4	7	17	6	17	0
Social Services Assisting (4)	3	1	0	3	1	0	0	2	0	0	1	0	1	0

TABLE 12A - CONTINUED

MAJOR (Raw Number)	ENROLLMENT PLANS (RAW NUMBER)			DIVISION (RAW NUMBER)				EMPLOYMENT PLANS (RAW NUMBER)						
	Full time	Part time	No response	Day	Night	Both	No response	None	1 to 10 hrs./wk.	11 to 15 hrs./wk.	16 to 20 hrs./wk.	21 to 30 hrs./wk.	31 or more	No response
Theatre Arts (8)	6	2	0	7	0	1	0	1	0	0	3	4	0	0
Transportation (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Women's Studies (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other (103)	64	36	3	76	15	8	4	29	9	11	26	12	15	1
Not Listed or Undecided (210)	129	62	19	151	20	21	18	69	18	28	40	19	24	12

TABLE 12B

MOST IMPORTANT REASON FOR ATTENDING THIS SEMESTER - BY MAJOR

(RAW NUMBER)

MAJOR (Raw Number)	Learn skills to get a new job	Learn skills to advance in job	Transfer to 4 year college	Satisfy G.E. requirements	Improve basic skills in English, reading or math	Take courses for personel interest	Other	No response
Accounting (55)	8	4	31	8	1	1	1	1
Administration of Justice (77)	31	4	23	6	3	5	2	3
Advertising (2)	1	0	1	0	0	0	0	0
Art (32)	7	1	13	3	0	6	0	2
Aviation Maintenance Technology (26)	15	4	1	3	0	1	2	0
Bookkeeping and Office Management (5)	0	3	2	0	0	0	0	0
Business (General) (254)	56	26	112	29	10	11	5	5

TABLE 12B - CONTINUED

(RAW NUMBER)

MAJOR (Raw Number)	Learn skills to get a new job	Learn skills to advance in job	Transfer to 4 year college	Satisfy G.E. requirements	Improve basic skills in English, reading or math	Take courses for personel interest	Other	No response
Communications, General (26)	4	1	16	3	2	0	0	0
Cosmetology (22)	10	3	3	0	0	5	0	1
Data Processing (144)	30	23	55	13	10	7	1	5
Dental Assisting (18)	8	1	2	5	1	1	0	0
Dental Hygiene (12)	4	0	1	4	1	0	2	0
Drafting Technology (8)	4	1	2	0	1	0	0	0
Early Childhood Education (19)	8	4	3	1	0	0	1	2

TABLE 12B - CONTINUED

MAJOR (Raw Number)	(RAW NUMBER)							
	Learn skills to get a new job	Learn skills to advance in job	Transfer to 4 year college	Satisfy G.E. requirements	Improve basic skills in English, reading or math	Take courses for personel interest	Other	No response
Electronics Technology (41)	12	7	9	3	3	2	3	2
Ethnic Studies (0)	0	0	0	0	0	0	0	0
Family & Consumer Science (4)	1	0	1	0	1	1	0	0
Fine Arts (3)	0	1	1	0	0	1	0	0
General Studies (33)	2	5	11	8	3	1	2	1
General Technology (4)	1	0	1	0	1	0	0	1
Humanities (1)	0	0	0	0	1	0	0	0

TABLE 12B - CONTINUED

(RAW NUMBER)

MAJOR (Raw Number)	Learn skills to get a new job	Learn skills to advance in job	Transfer to 4 year college	Satisfy G.E. requirements	Improve basic skills in English, reading or math	Take courses for personel interest	Other	No response
Instructional Assisting (3)	2	0	0	1	0	0	0	0
Languages & Literature (38)	7	7	12	5	2	3	1	1
Library Technology (2)	1	0	0	1	0	0	0	0
Management (25)	3	8	8	2	2	1	0	1
Mechanical-Electrical Technology (24)	13	5	4	1	0	0	0	1
Merchandising (8)	2	1	3	2	0	0	0	0
Metals Industry Technology (5)	4	0	0	0	0	1	0	0

TABLE 12B - CONTINUED

(RAW NUMBER)

MAJOR (Raw Number)	Learn skills to get a new job	Learn skills to advance in job	Transfer to 4 year college	Satisfy G.E. requirements	Improve basic skills in English, reading or math	Take courses for personel interest	Other	No response
Music (21)	4	2	7	0	2	5	1	0
Nursing, ADN (41)	13	6	12	7	1	0	1	1
Nursing, LVN (22)	8	3	3	5	1	1	1	0
Office Administration-Clerical (14)	7	2	0	1	2	1	0	1
Office Administration-General Secretarial (24)	12	3	1	1	5	1	0	1
Office Administration-Legal Secretarial (6)	4	0	1	0	1	0	0	0
Office Administration-Medical Secretarial (3)	2	0	0	1	0	0	0	0

TABLE 12B - CONTINUED

(RAW NUMBER)

MAJOR (Raw Number)	Learn skills to get a new job	Learn skills to advance in job	Transfer to 4 year college	Satisfy G.E. requirements.	Improve basic skills in English, reading or math	Take courses for personel interest	Other	No response
Photography (9)	4	2	3	0	0	0	0	0
Physical Education (31)	5	1	14	5	2	2	2	0
Printing Technology (10)	3	0	3	3	0	0	0	1
Real Estate (4)	0	0	2	0	0	2	0	0
Science, Mathematics & Engineering (157)	19	9	86	17	10	5	7	4
Social Sciences (72)	10	8	29	12	4	5	1	3
Social Services Assisting (4)	2	0	2	0	0	0	0	0

TABLE 12B - CONTINUED

(RAW NUMBER)

MAJOR (Raw Number)	Learn skills to get a new job	Learn skills to advance in job	Transfer to 4 year college	Satisfy G.E. requirements	Improve basic skills in English, reading or math	Take courses for personel interest	Other	No response
Theatre Arts (8)	2	1	4	0	0	1	0	0
Transportation (0)	0	0	0	0	0	0	0	0
Women's Studies (0)	0	0	0	0	0	0	0	0
Other (103)	24	8	41	17	4	5	2	2
Not Listed or Undecided (210)	65	21	45	22	19	16	9	13

TABLE 12C

AMOUNT OF EDUCATION PLANNED, CONSIDERING OR PLANNING TO TRANSFER TO ANOTHER SCHOOL LATER - BY MAJOR

MAJOR (Raw Number)	AMOUNT OF EDUCATION PLANNED (RAW NUMBER)						CONSIDERING OR PLANNING TO TRANSFER TO ANOTHER SCHOOL LATER (RAW NUMBER)					
	4 year college degree	2 year college degree	1 to 2 year cert. program	Classes only - no cert. or degree	Grad.or prof. study beyond 4 year degree	No response	A 2 year college	A 4 year col. or univ.	Other type of institution	Not planning to transfer	Undeclared about transfer	No response
Accounting (55)	32	14	2	0	7	0	3	36	1	2	12	1
Administration of Justice (77)	39	23	2	2	10	1	1	42	1	14	18	1
Advertising (2)	0	1	0	0	1	0	0	1	0	0	1	0
Art (32)	16	8	0	4	4	0	2	18	0	7	5	0
Aviation Maintenance Technology (26)	8	11	6	1	0	0	0	8	0	4	14	0
Bookkeeping and Office Management (5)	1	2	0	1	1	0	0	2	0	2	1	0
Business (General) (254)	140	63	13	10	24	4	9	149	3	34	58	1

TABLE 12C - CONTINUED

MAJOR (Raw Number)	AMOUNT OF EDUCATION PLANNED (RAW NUMBER)						CONSIDERING OR PLANNING TO TRANSFER TO ANOTHER SCHOOL LATER (RAW NUMBER)					
	4 year college degree	2 year college degree	1 to 2 year cert. program	Classes only - no cert. or degree	Grad.or prof. study beyond 4 year degree	No response	A 2 year college	A 4 year col. or univ.	Other type of institution	Not planning to transfer	Undeclared about transfer	No response
Communications, General (26)	19	4	0	0	3	0	2	20	0	1	3	0
Cosmetology (22)	5	6	11	0	0	0	0	6	0	14	1	1
Data Processing (144)	72	44	8	8	10	2	7	79	3	25	26	4
Dental Assisting (18)	0	8	8	0	2	0	0	3	0	7	8	0
Dental Hygiene (12)	0	6	5	0	1	0	0	2	0	6	4	0
Drafting Technology (8)	5	2	1	0	0	0	1	2	0	0	5	0
Early Childhood Education (19)	8	5	3	1	2	0	0	6	0	6	6	1

TABLE 12C - CONTINUED

MAJOR (Raw Number)	AMOUNT OF EDUCATION PLANNED (RAW NUMBER)						CONSIDERING OR PLANNING TO TRANSFER TO ANOTHER SCHOOL LATER (RAW NUMBER)					
	4 year college degree	2 year college degree	1 to 2 year cert. program	Classes only - no cert. or degree	Grad.or prof. study beyond 4 year degree	No response	A 2 year college	A 4 year col. or univ.	Other type of institution	Not planning to transfer	Undeclared about transfer	No response
Electronics Technology (41)	13	16	5	1	5	1	2	17	1	10	10	1
Ethnic Studies (0)	0	0	0	0	0	0	0	0	0	0	0	0
Family and Consumer Science (4)	3	1	0	0	0	0	1	1	1	1	0	0
Fine Arts (3)	1	1	0	1	0	0	0	1	0	2	0	0
General Studies (33)	13	10	2	1	7	0	1	17	3	3	9	0
General Technology (4)	2	1	0	0	0	1	0	2	0	0	1	1
Humanities (1)	0	0	0	0	1	0	0	1	0	0	0	0

TABLE 12C - CONTINUED

MAJOR (Raw Number)	AMOUNT OF EDUCATION PLANNED (RAW NUMBER)						CONSIDERING OR PLANNING TO TRANSFER TO ANOTHER SCHOOL LATER (RAW NUMBER)					
	4 year college degree	2 year college degree	1 to 2 year cert. program	Classes only - no cert. or degree	Grad. or prof. study beyond 4 year degree	No response	A 2 year college	A 4 year col. or univ.	Other type of institution	Not planning to transfer	Undeclared about transfer	No response
Instructional Assisting (3)	1	0	0	0	2	0	0	2	0	0	1	0
Languages & Literature (38)	19	9	3	1	6	0	1	19	1	5	11	1
Library Technology (2)	0	2	0	0	0	0	0	1	0	1	0	0
Management (25)	13	5	3	3	1	0	0	13	0	2	10	0
Mechanical-Electrical Technology (24)	7	10	5	1	1	0	0	8	0	10	5	1
Merchandising (8)	3	2	1	1	1	0	0	6	0	2	0	0
Metals Industry Technology (5)	1	2	1	1	0	0	0	0	0	4	1	0

TABLE 12C - CONTINUED

MAJOR (Raw Number)	AMOUNT OF EDUCATION PLANNED (RAW NUMBER)						CONSIDERING OR PLANNING TO TRANSFER TO ANOTHER SCHOOL LATER (RAW NUMBER)					
	4 year college degree	2 year college degree	1 to 2 year cert. program	Classes only - no cert. or degree	Grad.or prof. study beyond 4 year degree	No response	A 2 year college	A 4 year col. or univ.	Other type of institution	Not planning to transfer	Undeclared about transfer	No response
Music (21)	9	7	2	1	2	0	1	10	2	5	3	0
Nursing, ADN (41)	16	12	4	0	9	0	1	16	0	8	16	0
Nursing, LVN (22)	11	7	3	0	1	0	1	6	0	7	8	0
Office Administration-Clerical (14)	2	5	1	5	0	1	3	1	0	6	4	0
Office Administration-General Secretarial (24)	2	9	6	5	2	0	3	4	0	11	5	1
Office Administration-Legal Secretarial (6)	2	2	1	0	0	1	0	2	0	3	1	0
Office Administration-Medical Secretarial (3)	0	2	1	0	0	0	0	0	0	1	2	0

TABLE 12C - CONTINUED

MAJOR (Raw Number)	AMOUNT OF EDUCATION PLANNED (RAW NUMBER)						CONSIDERING OR PLANNING TO TRANSFER TO ANOTHER SCHOOL LATER (RAW NUMBER)					
	4 year college degree	2 year college degree	1 to 2 year cert. program	Classes only - no cert. or degree	Grad.or prof. study beyond 4 year degree	No response	A 2 year college	A 4 year col. or univ.	Other type of institution	Not planning to transfer	Undeclared about transfer	No response
Photography (9)	2	4	2	0	1	0	1	4	0	2	2	0
Physical Education (31)	18	5	2	1	5	0	1	21	1	2	4	2
Printing Technology (10)	3	3	2	1	1	0	0	7	0	1	2	0
Real Estate (4)	0	2	0	1	1	0	0	2	0	0	2	0
Science, Mathematics & Engineering (157)	80	19	9	4	44	1	2	119	1	9	24	2
Social Sciences (72)	35	14	2	4	15	2	2	45	3	6	16	0
Social Services Assisting (4)	3	1	0	0	0	0	0	2	0	1	1	0

TABLE 12C - CONTINUED

MAJOR (Raw Number)	AMOUNT OF EDUCATION PLANNED (RAW NUMBER)						CONSIDERING OR PLANNING TO TRANSFER TO ANOTHER SCHOOL LATER (RAW NUMBER)					
	4 year college degree	2 year college degree	1 to 2 year cert. program	Classes only - no cert. or degree	Grad.or prof. study beyond 4 year degree	No response	A 2 year college	A 4 year col. or univ.	Other type of institution	Not planning to transfer	Undeclared about transfer	No response
Theatre Arts (8)	6	1	0	0	1	0	0	6	0	0	2	0
Transportation (0)	0	0	0	0	0	0	0	0	0	0	0	0
Women's Studies (0)	0	0	0	0	0	0	0	0	0	0	0	0
Other (103)	49	20	5	6	20	3	4	57	1	17	23	1
Not Listed or Undecided (210)	80	76	21	17	10	6	5	84	3	52	53	13

TABLE 12D
PRIMARY LANGUAGE, TYPE OF H. S. CERT., AVERAGE TEST SCORES, & STANDARD DEVIATIONS - BY MAJOR

MAJOR (Raw Number)	IS ENGLISH YOUR PRIMARY LANGUAGE? (RAW NUMBER)			TYPE OF HIGH SCHOOL CERTIFICATE (RAW NUMBER)								TEST SCORES (AVERAGE SCORE & STANDARD DEVIATION)					
	Yes	No	No response	H. S. Diploma	G.E.D.	Proficiency Exam.	Cert. of Completion	Foreign Secondary	Not a High School Graduate	Still in High School	No response	Language Usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Accounting (55)	42	13	0	44	5	0	0	3	2	0	1	44.5 (7.49)	25.1 (7.91)	21.5 (5.75)	24.5 (8.12)	15.5 (5.51)	21.5 (8.32)
Administration of Justice (77)	73	3	1	63	2	2	0	0	6	2	2	39.9 (11.33)	22.8 (8.53)	16.4 (6.96)	19.1 (8.31)	16.2 (5.13)	19.8 (8.18)
Advertising (2)	2	0	0	2	0	0	0	0	0	0	0	44.0 (1.41)	29.5 (0.71)	15.5 (3.54)	33.5 (9.71)	18.0 (8.49)	20.0 (5.66)
Art (32)	27	4	1	24	2	2	0	1	2	1	0	41.7 (11.25)	23.0 (10.19)	16.4 (8.27)	18.0 (10.66)	15.2 (6.70)	18.2 (10.82)
Aviation Maintenance Technology (26)	21	5	0	19	2	1	1	1	1	0	1	42.3 (9.82)	27.5 (9.16)	21.2 (6.14)	20.8 (5.81)	22.6 (5.04)	27.6 (5.00)
Bookkeeping and Office Management (5)	5	0	0	4	1	0	0	0	0	0	0	39.6 (12.40)	27.2 (7.79)	19.8 (2.68)	23.8 (10.71)	14.0 (5.39)	20.4 (5.94)
Business (General) (254)	215	38	1	217	9	9	1	3	13	0	2	42.5 (9.66)	24.0 (8.19)	19.1 (6.37)	22.7 (8.78)	15.8 (5.90)	20.5 (8.68)

TABLE 12D - CONTINUED

MAJOR (Raw Number)	IS ENGLISH YOUR PRIMARY LANGUAGE? (RAW NUMBER)			TYPE OF HIGH SCHOOL CERTIFICATE (RAW NUMBER)								TEST SCORES (AVERAGE SCORE & STANDARD DEVIATION)					
	Yes	No	No response	H. S. Diploma	G.E.D.	Proficiency Exam.	Cert. of Completion	Foreign Secondary	Not a High School Graduate	Still in High School	No response	Language Usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Communications, General (26)	24	2	0	25	0	0	0	0	0	0	1	49.1 (6.47)	25.1 (7.66)	18.1 (5.77)	23.9 (7.21)	14.8 (4.67)	17.8 (7.78)
Cosmetology (22)	20	2	0	13	2	1	0	0	6	0	0	38.8 (9.40)	20.7 (8.17)	14.0 (7.50)	20.2 (10.73)	13.5 (4.51)	17.8 (7.54)
Data Processing (144)	113	31	0	113	8	2	2	3	10	3	3	42.2 (8.62)	22.8 (8.56)	19.4 (6.26)	21.4 (8.30)	16.6 (6.03)	21.0 (9.15)
Dental Assisting (18)	17	0	1	15	0	0	1	0	2	0	0	45.7 (8.38)	23.4 (9.46)	17.7 (6.23)	19.4 (7.41)	12.4 (3.97)	18.3 (7.16)
Dental Hygiene (12)	10	1	1	10	0	0	1	0	1	0	0	48.8 (5.65)	24.5 (10.43)	20.4 (3.68)	22.5 (8.21)	14.7 (4.98)	22.4 (6.32)
Drafting Technology (8)	6	2	0	6	0	0	0	0	2	0	0	41.8 (10.99)	22.1 (9.49)	20.1 (7.47)	21.0 (9.53)	18.5 (6.26)	28.1 (3.48)
Early Childhood Education (19)	17	1	1	14	0	0	0	0	3	0	2	40.0 (11.27)	19.9 (8.48)	14.7 (5.32)	18.3 (10.23)	12.3 (4.98)	14.3 (7.68)

TABLE 12D - CONTINUED

MAJOR (Raw Number)	IS ENGLISH YOUR PRIMARY LANGUAGE? (RAW NUMBER)			TYPE OF HIGH SCHOOL CERTIFICATE (RAW NUMBER)								TEST SCORES (AVERAGE SCORE & STANDARD DEVIATION)					
	Yes	No	No response	H. S. Diploma	G.E.D.	Proficiency Exam.	Cert. of Completion	Foreign Secondary	Not a High School Graduate	Still in High School	No response	Language Usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Electronics Technology (41)	30	10	1	31	1	1	0	2	4	1	1	44.3 (8.56)	24.8 (9.48)	22.4 (6.32)	21.3 (9.31)	20.2 (5.97)	25.0 (9.25)
Ethnic Studies (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Family and Consumer Science (4)	4	0	0	3	0	0	0	0	1	0	0	43.8 (10.21)	24.8 (8.06)	16.8 (6.90)	18.3 (7.27)	13.8 (1.71)	20.5 (10.08)
Fine Arts (3)	3	0	0	3	0	0	0	0	0	0	0	46.7 (5.03)	24.7 (5.69)	16.3 (1.53)	21.3 (6.43)	17.0 (5.00)	18.3 (7.02)
General Studies (33)	29	4	0	25	4	3	0	0	0	0	1	43.3 (10.24)	25.8 (9.05)	18.5 (5.82)	22.8 (9.63)	16.5 (5.25)	20.6 (9.64)
General Technology (4)	1	3	0	2	0	0	0	1	0	0	1	34.8 (14.41)	16.5 (11.09)	13.0 (8.12)	17.8 (13.15)	17.8 (3.59)	22.5 (7.33)
Humanities (1)	1	0	0	1	0	0	0	0	0	0	0	0 (0)	23.0 (0)	26.0 (0)	17.0 (0)	29.0 (0)	29.0 (0)

TABLE 12D - CONTINUED

MAJOR (Raw Number)	IS ENGLISH YOUR PRIMARY LANGUAGE? (RAW NUMBER)			TYPE OF HIGH SCHOOL CERTIFICATE (RAW NUMBER)								TEST SCORES (AVERAGE SCORE & STANDARD DEVIATION)					
	Yes	No	No response	H. S. Diploma	G.E.D.	Proficiency Exam.	Cert. of Completion	Foreign Secondary	Not a High School Graduate	Still in High School	No response	Language Usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Instructional Assisting (3)	2	1	0	2	0	0	0	0	1	0	0	44.3 (8.74)	23.0 (4.36)	13.3 (5.03)	14.3 (18.34)	12.7 (13.01)	14.3 (15.63)
Languages and Literature (38)	32	6	0	23	3	2	0	2	5	2	1	41.4 (14.04)	23.2 (8.99)	16.5 (7.11)	18.7 (9.01)	16.2 (6.17)	19.6 (8.88)
Library Technology (2)	1	1	0	2	0	0	0	0	0	0	0	44.5 (2.12)	25.0 (1.41)	22.0 (2.83)	19.0 (1.41)	22.0 (7.07)	23.0 (1.41)
Management (25)	22	3	0	20	1	1	0	0	3	0	0	41.4 (10.33)	24.0 (9.37)	17.1 (6.19)	19.5 (9.82)	14.2 (5.72)	20.8 (9.79)
Mechanical-Electrical Technology (24)	18	6	0	20	0	1	0	1	2	0	0	40.8 (8.26)	21.9 (8.03)	20.6 (6.48)	19.6 (8.83)	20.3 (5.76)	22.4 (7.96)
Merchandising (8)	7	1	0	6	2	0	0	0	0	0	0	44.3 (7.65)	28.4 (7.48)	20.0 (7.29)	23.8 (8.26)	15.6 (4.96)	26.9 (3.72)
Metals Industry Technology (5)	4	1	0	3	2	0	0	0	0	0	0	28.8 (17.11)	14.6 (9.79)	6.8 (6.61)	13.0 (10.37)	13.8 (8.41)	14.6 (12.10)

TABLE 12D - CONTINUED

MAJOR (Raw Number)	IS ENGLISH YOUR PRIMARY LANGUAGE? (RAW NUMBER)			TYPE OF HIGH SCHOOL CERTIFICATE (RAW NUMBER)								TEST SCORES (AVERAGE SCORE & STANDARD DEVIATION)					
	Yes	No	No response	H. S. Diploma	G.E.D.	Proficiency Exam.	Cert. of Completion	Foreign Secondary	Not a High School Graduate	Still in High School	No response	Language Usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Music (21)	20	1	0	16	2	0	0	0	3	0	0	44.3 (6.95)	22.4 (8.23)	17.5 (5.58)	19.8 (6.58)	17.0 (5.51)	21.7 (8.49)
Nursing, ADN (41)	32	9	0	27	3	2	1	1	6	0	1	40.8 (10.90)	21.6 (10.00)	18.2 (6.63)	20.8 (9.72)	13.8 (5.40)	16.9 (9.39)
Nursing, LVN (22)	18	4	0	14	3	1	0	1	3	0	0	39.5 (12.12)	21.7 (10.09)	19.1 (5.72)	19.6 (7.30)	15.1 (4.82)	16.7 (7.73)
Office Administration, Clerical (14)	12	2	0	11	0	0	0	0	3	0	0	32.8 (11.27)	18.6 (9.87)	12.9 (6.22)	17.9 (10.10)	11.1 (4.98)	12.1 (9.02)
Office Administration, General Secretarial (24)	17	6	1	15	1	1	1	1	5	0	0	42.4 (9.58)	21.7 (9.60)	15.9 (6.63)	20.4 (9.34)	13.5 (4.85)	17.9 (7.43)
Office Administration, Legal Secretarial (6)	4	2	0	5	0	0	0	0	1	0	0	47.5 (5.01)	24.7 (4.84)	18.2 (4.62)	27.2 (3.25)	13.5 (2.88)	19.3 (7.06)
Office Administration, Medical Secretarial (3)	2	0	1	3	0	0	0	0	0	0	0	42.0 (8.89)	27.0 (9.54)	13.3 (6.66)	22.7 (3.21)	13.0 (2.65)	16.3 (3.21)

TABLE 12D - CONTINUED

MAJOR (Raw Number)	IS ENGLISH YOUR PRIMARY LANGUAGE? (RAW NUMBER)			TYPE OF HIGH SCHOOL CERTIFICATE (RAW NUMBER)								TEST SCORES (AVERAGE SCORE & STANDARD DEVIATION)					
	Yes	No	No response	H. S. Diploma	G.E.D.	Proficiency Exam.	Cert. of Completion	Foreign Secondary	Not a High School Graduate	Still in High School	No response	Language Usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Photography (9)	8	1	0	5	1	0	0	0	2	1	0	41.0 (9.53)	23.3 (9.38)	16.8 (8.53)	18.8 (10.29)	15.6 (4.69)	20.1 (9.73)
Physical Education (31)	25	6	0	23	2	2	0	0	4	0	0	40.2 (11.62)	22.2 (8.45)	18.2 (6.21)	22.6 (8.42)	14.6 (5.61)	17.8 (9.09)
Printing Technology (10)	10	0	0	6	2	1	0	0	1	0	0	45.2 (8.59)	27.4 (7.24)	23.1 (4.86)	24.0 (8.46)	18.9 (4.84)	24.3 (9.49)
Real Estate (4)	4	0	0	3	0	0	0	0	1	0	0	42.5 (2.52)	24.3 (9.95)	16.3 (3.50)	20.3 (6.02)	18.8 (5.12)	23.5 (7.55)
Science, Mathematics & Engineering (157)	120	37	0	130	8	3	3	1	3	5	4	44.2 (9.42)	25.9 (7.82)	20.7 (6.02)	21.9 (8.23)	18.2 (5.83)	22.6 (9.36)
Social Sciences (72)	69	3	0	56	5	1	1	0	4	3	2	44.0 (9.23)	25.4 (7.94)	17.6 (7.45)	20.4 (8.76)	14.8 (5.49)	19.8 (8.77)
Social Services Assisting (4)	4	0	0	4	0	0	0	0	0	0	0	39.3 (1.89)	15.0 (1.83)	15.8 (4.35)	19.5 (5.45)	10.8 (5.19)	19.5 (4.20)

TABLE 12D - CONTINUED

MAJOR (Raw Number)	IS ENGLISH YOUR PRIMARY LANGUAGE? (RAW NUMBER)			TYPE OF HIGH SCHOOL CERTIFICATE (RAW NUMBER)								TEST SCORES (AVERAGE SCORE & STANDARD DEVIATION)					
	Yes	No	No response	H. S. Diploma	G.E.D.	Proficiency Exam.	Cert. of Completion	Foreign Secondary	Not a High School Graduate	Still in High School	No response	Language Usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Theatre Arts (8)	8	0	0	6	1	1	0	0	0	0	0	48.5 (4.44)	32.6 (4.53)	21.9 (3.27)	16.9 (5.14)	17.3 (5.04)	20.5 (9.15)
Transportation (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Women's Studies (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other (103)	86	16	1	89	2	0	0	1	8	0	3	40.9 (10.59)	22.2 (9.18)	16.7 (6.39)	20.2 (8.75)	14.8 (5.43)	18.9 (8.47)
Not Listed or Undecided (210)	168	38	4	149	12	7	2	4	22	5	9	38.7 (11.33)	20.8 (8.98)	16.7 (7.17)	18.8 (9.36)	15.9 (5.68)	19.6 (9.12)

TABLE 13A

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION - BY MAJOR

(RAW NUMBER)

MAJOR = Accounting

TOTAL RESPONSE 55

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	29	8	16	2
Finding employment	16	13	24	2
Day care information	3	7	43	2
Physical disability	0	4	49	2
Health problem	1	6	46	2
Commuter information	5	10	38	2
Choosing major/career	13	16	25	1
Reading skills	5	19	29	2
Study skills	9	23	21	2
Writing skills	9	23	21	2
Math. skills	7	20	26	2
Work experience credit	13	16	23	3
Other	1	0	20	34

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION
(RAW NUMBER)

MAJOR = Administration of Justice

TOTAL RESPONSE 77

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	39	13	21	4
Finding employment	33	16	25	3
Day care information	9	3	56	9
Physical disability	0	1	67	9
Health problem	1	2	65	9
Commuter information	6	7	54	10
Choosing major/career	14	20	36	7
Reading skills	17	20	33	7
Study skills	25	27	19	6
Writing skills	24	23	22	8
Math. skills	29	23	21	4
Work experience credit	17	17	33	10
Other	2	3	30	42

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Art

TOTAL RESPONSE 32

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	15	8	5	4
Finding employment	11	6	11	4
Day care information	2	3	23	4
Physical disability	1	2	26	3
Health problem	2	2	25	3
Commuter information	8	3	17	4
Choosing major/career	14	7	8	3
Reading skills	6	5	18	3
Study skills	7	10	13	2
Writing skills	7	7	14	4
Math. skills	10	9	9	4
Work experience credit	10	8	8	6
Other	3	0	12	17

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION
(RAW NUMBER)

MAJOR = Aviation Main.
Technician

TOTAL RESPONSE 26

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	8	6	9	3
Finding employment	8	6	9	3
Day care information	0	0	23	3
Physical disability	0	0	23	3
Health problem	0	0	23	3
Commuter information	1	3	19	3
Choosing major/career	4	7	13	2
Reading skills	2	9	12	3
Study skills	4	8	12	2
Writing skills	1	12	11	2
Math. skills	3	9	12	2
Work experience credit	5	6	13	2
Other	1	2	14	9

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Business (General)

TOTAL RESPONSE 254

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	104	50	85	15
Finding employment	91	45	102	16
Day care information	21	12	199	22
Physical disability	5	8	217	24
Health problem	11	10	214	19
Commuter information	37	39	153	25
Choosing major/career	101	72	67	14
Reading skills	49	64	123	18
Study skills	64	75	98	17
Writing skills	71	64	101	18
Math. skills	77	63	101	13
Work experience credit	56	57	113	28
Other	10	2	97	145

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Communications, General

TOTAL RESPONSE 26

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	13	5	7	1
Finding employment	8	4	12	2
Day care information	1	0	25	0
Physical disability	1	0	25	0
Health problem	0	0	26	0
Commuter information	2	6	18	0
Choosing major/career	11	7	6	2
Reading skills	5	7	14	0
Study skills	5	15	6	0
Writing skills	8	12	6	0
Math. skills	8	11	5	2
Work experience credit	6	5	14	1
Other	1	0	9	16

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION
(RAW NUMBER)

MAJOR = Cosmetology

TOTAL RESPONSE 22

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	11	5	5	1
Finding employment	6	4	11	1
Day care information	3	3	15	1
Physical disability	0	1	20	1
Health problem	1	0	20	1
Commuter information	1	4	15	2
Choosing major/career	3	4	14	1
Reading skills	3	4	14	1
Study skills	4	4	13	1
Writing skills	3	4	14	1
Math. skills	5	5	11	1
Work experience credit	6	4	11	1
Other	2	0	10	10

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Data Processing

TOTAL RESPONSE 144

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	73	27	34	10
Finding employment	50	27	54	13
Day care information	15	8	108	13
Physical disability	4	6	117	17
Health problem	10	6	112	16
Commuter information	19	25	85	15
Choosing major/career	42	46	42	14
Reading skills	26	34	66	18
Study skills	37	46	47	14
Writing skills	45	39	47	13
Math. skills	47	33	54	10
Work experience credit	30	35	57	22
Other	2	2	46	94

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION
(RAW NUMBER)

MAJOR = Electronics Tech.

TOTAL RESPONSE 41

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	16	9	12	4
Finding employment	16	5	15	5
Day care information	1	2	32	6
Physical disability	3	1	30	7
Health problem	6	1	30	4
Commuter information	4	6	23	8
Choosing major/career	12	9	17	3
Reading skills	8	10	19	4
Study skills	9	15	14	3
Writing skills	9	14	15	3
Math. skills	10	11	17	3
Work experience credit	11	6	19	5
Other	2	1	17	21

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = General Studies

TOTAL RESPONSE 33

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	20	1	11	1
Finding employment	9	8	15	1
Day care information	2	0	30	1
Physical disability	0	2	29	2
Health problem	1	3	28	1
Commuter information	4	3	24	2
Choosing major/career	13	8	10	2
Reading skills	7	8	16	2
Study skills	9	10	12	2
Writing skills	11	9	12	1
Math. skills	7	14	10	2
Work experience credit	9	4	19	1
Other	2	0	16	15

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION
(RAW NUMBER)

MAJOR = Languages & Literature

TOTAL RESPONSE 38

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	16	7	13	2
Finding employment	17	7	12	2
Day care information	6	1	28	3
Physical disability	2	2	31	3
Health problem	1	3	31	3
Commuter information	7	3	24	4
Choosing major/career	15	13	7	3
Reading skills	10	8	19	1
Study skills	13	12	11	2
Writing skills	16	9	10	3
Math. skills	12	12	12	2
Work experience credit	8	13	15	2
Other	2	1	13	22

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Management

TOTAL RESPONSE 25

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	9	2	14	0
Finding employment	9	1	14	1
Day care information	3	2	19	1
Physical disability	2	0	20	3
Health problem	1	0	20	4
Commuter information	2	4	16	3
Choosing major/career	9	5	8	3
Reading skills	4	6	12	3
Study skills	5	9	8	3
Writing skills	8	6	8	3
Math. skills	8	11	5	1
Work experience credit	6	4	14	1
Other	0	0	13	12

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION
(RAW NUMBER)

MAJOR = Mechanical-
Electrical Tech.

TOTAL RESPONSE 24

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	9	7	6	2
Finding employment	13	2	6	3
Day care information	0	2	18	4
Physical disability	0	1	19	4
Health problem	0	2	18	4
Commuter information	5	2	13	4
Choosing major/career	5	7	11	1
Reading skills	7	4	12	1
Study skills	6	8	10	0
Writing skills	8	3	11	2
Math. skills	6	7	9	2
Work experience credit	4	7	9	4
Other	1	0	11	12

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Nursing, ADN

TOTAL RESPONSE 41

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	21	4	13	3
Finding employment	17	4	19	1
Day care information	13	4	22	2
Physical disability	1	1	37	2
Health problem	0	4	35	2
Commuter information	3	3	33	2
Choosing major/career	13	9	18	1
Reading skills	10	11	20	0
Study skills	18	6	15	2
Writing skills	13	9	16	3
Math. skills	17	11	13	0
Work experience credit	13	7	17	4
Other	1	0	14	26

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Nursing, L.V.N.

TOTAL RESPONSE 22

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	13	3	5	1
Finding employment	9	4	8	1
Day care information	12	2	7	1
Physical disability	1	0	20	1
Health problem	0	1	20	1
Commuter information	2	1	18	1
Choosing major/career	7	5	9	1
Reading skills	5	7	10	0
Study skills	9	4	8	1
Writing skills	7	7	7	1
Math. skills	11	4	7	0
Work experience credit	7	6	7	2
Other	0	0	6	16

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Office Admin.-
Gen. Secretarial

TOTAL RESPONSE 24

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	12	3	9	0
Finding employment	9	5	8	2
Day care information	4	4	14	2
Physical disability	1	3	18	2
Health problem	3	4	15	2
Commuter information	6	5	12	1
Choosing major/career	10	4	9	1
Reading skills	6	5	13	0
Study skills	8	4	12	0
Writing skills	10	6	8	0
Math. skills	9	4	10	1
Work experience credit	7	5	10	2
Other	3	0	8	13

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Physical Education

TOTAL RESPONSE 31

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	13	3	14	1
Finding employment	12	4	14	1
Day care information	1	1	27	2
Physical disability	0	1	28	2
Health problem	3	3	25	0
Commuter information	4	4	22	1
Choosing major/career	10	8	13	0
Reading skills	9	7	13	2
Study skills	11	8	11	1
Writing skills	12	8	9	2
Math. skills	10	11	8	2
Work experience credit	9	7	13	2
Other	1	0	13	17

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION
(RAW NUMBER)

MAJOR = Science, Math. & Engineering

TOTAL RESPONSE 157

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	66	37	45	9
Finding employment	60	31	59	7
Day care information	14	6	125	12
Physical disability	4	4	134	15
Health problem	7	6	130	14
Commuter information	19	15	108	15
Choosing major/career	47	46	52	12
Reading skills	28	34	81	14
Study skills	45	46	52	14
Writing skills	55	35	56	11
Math. skills	44	52	48	13
Work experience credit	27	42	71	17
Other	5	1	59	92

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Social Sciences

TOTAL RESPONSE 72

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	29	17	22	4
Finding employment	18	18	32	4
Day care information	10	3	53	6
Physical disability	2	5	60	5
Health problem	4	4	60	4
Commuter information	6	11	48	7
Choosing major/career	31	19	19	3
Reading skills	15	14	34	9
Study skills	23	20	21	8
Writing skills	24	20	24	4
Math. skills	23	20	25	4
Work experience credit	18	18	28	8
Other	2	1	20	49

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION
(RAW NUMBER)

MAJOR = Other

TOTAL RESPONSE 103

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	37	26	34	6
Finding employment	39	24	32	8
Day care information	7	7	79	10
Physical disability	3	4	86	10
Health problem	4	6	83	10
Commuter information	15	12	62	14
Choosing major/career	40	27	27	9
Reading skills	21	28	43	11
Study skills	29	27	37	10
Writing skills	30	21	43	9
Math. skills	30	28	37	8
Work experience credit	24	28	39	12
Other	3	3	37	60

TABLE 13A - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - TOTAL POPULATION

(RAW NUMBER)

MAJOR = Not Listed or Undecided

TOTAL RESPONSE 210

AREA	YES	MAYBE	NO	NO RESPONSE
Financing education	82	40	67	21
Finding employment	84	27	77	22
Day care information	16	15	147	32
Physical disability	7	6	164	33
Health problem	7	11	161	31
Commuter information	17	24	133	36
Choosing major/career	59	42	78	31
Reading skills	46	47	91	26
Study skills	50	64	68	28
Writing skills	57	57	70	26
Math. skills	49	63	74	24
Work experience credit	43	36	100	31
Other	7	5	80	118

TABLE 13B

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS & MAJOR

(RAW NUMBER)

MAJOR = Accounting

TOTAL RESPONSE 55

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	22	7	0	6	2	0	9	7	0	2	0	0
Finding employment	10	6	0	9	4	0	18	6	0	2	0	0
Day care information	3	0	0	5	2	0	29	14	0	2	0	
Physical disability	0	0	0	2	2	0	35	14	0	2	0	0
Health problem	1	0	0	3	3	0	33	13	0	2	0	0
Commuter information	3	2	0	7	3	0	27	11	0	2	0	0
Choosing major/career	10	3	0	11	5	0	17	8	0	1	0	0
Reading skills	4	1	0	15	4	0	18	11	0	2	0	0
Study skills	6	3	0	18	5	0	13	8	0	2	0	0
Writing skills	6	3	0	17	6	0	14	7	0	2	0	0
Math. skills	6	1	0	14	6	0	17	9	0	2	0	0
Work experience credit	7	6	0	14	2	0	15	8	0	3	0	0
Other	1	0	0	0	0	0	14	6	0	24	10	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Administration of Justice

TOTAL RESPONSE 76

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	26	12	1	11	2	0	9	11	1	3	0	0
Finding employment	19	12	1	14	2	0	13	11	1	3	0	0
Day care information	6	3	0	1	2	0	36	18	2	6	2	0
Physical disability	0	0	0	1	0	0	42	23	2	6	2	0
Health problem	0	1	0	1	1	0	42	21	2	6	2	0
Commuter information	3	3	0	4	2	1	35	18	1	7	2	0
Choosing major/career	9	4	1	13	5	1	21	15	0	6	1	0
Reading skills	7	10	0	14	5	1	22	10	1	6	0	0
Study skills	12	12	0	20	5	2	12	7	0	5	1	0
Writing skills	13	11	0	16	5	2	14	8	0	6	1	0
Math. skills	19	9	0	15	7	1	12	8	1	3	1	0
Work experience credit	11	6	0	12	5	0	20	11	2	6	3	0
Other	1	1	0	2	1	0	18	10	2	28	13	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS
(RAW NUMBER)

MAJOR = Art

TOTAL RESPONSE 32

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	9	5	1	6	0	2	3	1	1	2	2	0
Finding employment	5	4	2	6	0	0	7	2	2	2	2	0
Day care information	2	0	0	2	0	1	14	6	3	2	2	0
Physical disability	0	1	0	1	1	0	17	5	4	2	1	0
Health problem	0	2	0	2	0	0	16	5	4	2	1	0
Commuter information	5	2	1	3	0	0	10	4	3	2	2	0
Choosing major/career	11	2	1	5	2	0	3	2	3	1	2	0
Reading skills	3	2	1	5	0	0	11	4	3	1	2	0
Study skills	5	2	0	7	2	1	7	3	3	1	1	0
Writing skills	5	2	0	6	0	1	7	4	3	2	2	0
Math. skills	5	4	1	8	1	0	5	1	3	2	2	0
Work experience credit	8	2	0	6	1	1	2	3	3	4	2	0
Other	2	1	0	0	0	0	6	3	3	12	4	1

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS
(RAW NUMBER)

MAJOR = Aviation Main. Technician

TOTAL RESPONSE 26

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	2	6	0	3	3	0	2	6	1	1	2	0
Finding employment	1	7	0	4	2	0	2	6	1	1	2	0
Day care information	0	0	0	0	0	0	7	15	1	1	2	0
Physical disability	0	0	0	0	0	0	7	15	1	1	2	0
Health problem	0	0	0	0	0	0	7	15	1	1	2	0
Commuter information	1	0	0	2	1	0	4	14	1	1	2	0
Choosing major/career	2	2	0	4	3	0	2	10	1	0	2	0
Reading skills	0	2	0	5	4	0	2	9	1	1	2	0
Study skills	1	3	0	5	3	0	2	9	1	0	2	0
Writing skills	0	1	0	5	7	0	2	8	1	1	1	0
Math. skills	1	2	0	5	4	0	2	9	1	0	2	0
Work experience credit	0	5	0	4	2	0	3	9	1	1	1	0
Other	0	1	0	2	0	0	5	8	1	1	8	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Bookkeeping & Office Man.

TOTAL RESPONSE 5

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	1	0	1	1	1	0	0	1	0	0	0	0
Finding employment	0	0	0	1	0	0	1	2	1	0	0	0
Day care information	0	0	1	0	0	0	2	2	0	0	0	0
Physical disability	0	0	0	0	0	0	2	2	1	0	0	0
Health problem	0	0	0	0	0	0	2	2	1	0	0	0
Commuter information	0	0	1	0	0	0	2	2	0	0	0	0
Choosing major/career	0	1	1	0	1	0	2	0	0	0	0	0
Reading skills	0	0	1	0	0	0	2	2	0	0	0	0
Study skills	1	0	1	0	0	0	1	2	0	0	0	0
Writing skills	0	0	1	0	0	0	2	2	0	0	0	0
Math. skills	0	0	1	0	0	0	2	2	0	0	0	0
Work experience credit	1	0	1	1	0	0	0	2	0	0	0	0
Other	0	0	0	0	0	0	0	2	0	2	0	1

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR= Business (General)

TOTAL RESPONSE 250

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	64	37	2	38	10	1	52	25	6	10	4	1
Finding employment	49	36	4	36	9	0	67	28	5	12	3	1
Day care information	10	11	0	6	4	1	133	55	8	15	6	1
Physical disability	3	2	0	3	5	0	142	62	9	16	7	1
Health problem	6	5	0	3	6	1	142	60	8	13	5	1
Commuter information	21	13	2	27	10	1	100	45	6	16	8	1
Choosing major/career	66	30	4	46	24	0	42	20	5	10	2	1
Reading Skills	30	17	2	44	18	2	78	36	6	12	5	0
Study skills	40	21	3	55	18	1	57	33	6	12	4	0
Writing skills	45	22	4	49	13	1	58	36	5	12	5	0
Math. skills	49	25	3	47	14	0	59	34	6	9	3	1
Work experience credit	32	22	1	42	15	0	71	31	8	19	8	1
Other	7	3	0	2	0	0	60	33	4	95	40	6

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Communications, General

TOTAL RESPONSE 26

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	10	3	0	5	0	0	6	1	0	1	0	0
Finding employment	7	1	0	4	0	0	9	3	0	2	0	0
Day care information	1	0	0	0	0	0	21	4	0	0	0	0
Physical disability	1	0	0	0	0	0	21	4	0	0	0	0
Health problem	0	0	0	0	0	0	22	4	0	0	0	0
Commuter information	2	0	0	4	2	0	16	2	0	0	0	0
Choosing major/career	9	2	0	5	2	0	6	0	0	2	0	0
Reading skills	4	1	0	6	1	0	12	2	0	0	0	0
Study skills	5	0	0	13	2	0	4	2	0	0	0	0
Writing skills	7	1	0	9	3	0	6	0	0	0	0	0
Math. skills	6	2	0	10	1	0	4	1	0	2	0	0
Work experience credit	6	0	0	4	1	0	11	3	0	1	0	0
Other	1	0	0	0	0	0	8	1	0	13	3	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Cosmetology

TOTAL RESPONSE 22

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	4	7	0	0	5	0	1	4	0	0	1	0
Finding employment	1	5	0	1	3	0	3	8	0	0	1	0
Day care information	1	2	0	1	2	0	3	12	0	0	1	0
Physical disability	0	0	0	0	1	0	5	15	0	0	1	0
Health problem	0	1	0	0	0	0	5	15	0	0	1	0
Commuter information	1	0	0	1	3	0	3	12	0	0	2	0
Choosing major/career	1	2	0	2	2	0	2	12	0	0	1	0
Reading skills	2	1	0	0	4	0	3	11	0	0	1	0
Study skills	1	3	0	1	3	0	3	10	0	0	1	0
Writing skills	1	2	0	2	2	0	2	12	0	0	1	0
Math. skills	2	3	0	2	3	0	1	10	0	0	1	0
Work experience credit	2	4	0	1	3	0	2	9	0	0	1	0
Other	0	2	0	0	0	0	2	8	0	3	7	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Data Processing

TOTAL RESPONSE 142

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	43	28	2	16	8	2	17	12	4	6	4	0
Finding employment	21	24	4	21	5	1	34	16	3	6	7	0
Day care information	5	10	0	6	2	0	64	34	8	7	6	0
Physical disability	3	1	0	4	2	0	67	40	8	8	9	0
Health problem	6	4	0	2	4	0	66	36	8	8	8	0
Commuter information	9	7	2	17	7	1	48	31	5	8	7	0
Choosing major/career	24	15	2	27	16	2	24	14	4	7	7	0
Reading skills	13	11	2	22	11	1	37	22	5	10	8	0
Study skills	22	13	2	28	15	2	26	16	4	6	8	0
Writing skills	24	19	2	25	11	2	25	17	4	8	5	0
Math. skills	23	21	3	25	7	1	30	18	4	4	6	0
Work experience credit	12	16	2	26	8	1	32	18	5	12	10	0
Other	2	0	0	1	0	1	25	18	3	54	34	4

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Dental Assisting

TOTAL RESPONSE 18

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	0	10	0	0	1	0	2	5	0	0	0	0
Finding employment	0	7	0	0	2	0	2	7	0	0	0	0
Day care information	0	5	0	0	1	0	2	10	0	0	0	0
Physical disability	0	0	0	0	1	0	2	15	0	0	0	0
Health problem	0	1	0	0	1	0	2	14	0	0	0	0
Commuter information	0	1	0	0	4	0	2	11	0	0	0	0
Choosing major/career	1	5	0	0	2	0	1	9	0	0	0	0
Reading skills	0	2	0	0	4	0	2	10	0	0	0	0
Study skills	1	6	0	0	2	0	1	8	0	0	0	0
Writing skills	0	5	0	1	2	0	1	9	0	0	0	0
Math. skills	0	4	0	1	4	0	1	8	0	0	0	0
Work experience credit	0	4	0	1	3	0	1	9	0	0	0	0
Other	0	0	0	0	0	0	2	6	0	0	10	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Dental Hygiene

TOTAL RESPONSE 12

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	1	7	0	0	0	0	0	4	0	0	0	0
Finding employment	0	1	0	0	1	0	1	7	0	0	2	0
Day care information	0	2	0	0	0	0	1	7	0	0	2	0
Physical disability	0	0	0	0	0	0	1	9	0	0	2	0
Health problem	0	0	0	0	0	0	1	9	0	0	2	0
Commuter information	0	0	0	0	1	0	1	8	0	0	2	0
Choosing major/career	0	1	0	0	2	0	0	6	0	0	2	0
Reading skills	0	0	0	0	2	0	1	6	0	0	2	0
Study skills	0	2	0	1	1	0	0	6	0	0	2	0
Writing skills	0	2	0	0	1	0	1	6	0	0	2	0
Math. skills	0	0	0	1	3	0	0	6	0	0	2	0
Work experience credit	1	2	0	0	1	0	0	6	0	0	2	0
Other	0	0	0	0	0	0	0	4	0	1	7	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS
(RAW NUMBER)

MAJOR = Early Childhood Education

TOTAL RESPONSE 19

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	5	3	0	1	0	1	4	3	0	0	2	0
Finding employment	2	4	0	4	2	1	4	1	0	0	1	0
Day care information	1	3	1	0	1	0	9	2	0	0	2	0
Physical disability	0	0	0	0	0	0	10	6	1	0	2	0
Health problem	0	0	0	1	2	0	9	4	1	0	2	0
Commuter information	2	0	0	0	0	1	8	6	0	0	2	0
Choosing major/career	3	1	1	3	2	0	4	3	0	0	2	0
Reading skills	1	1	0	3	3	1	6	2	0	0	2	0
Study skills	0	2	0	4	2	0	6	2	1	0	2	0
Writing skills	1	2	0	3	1	0	6	3	1	0	2	0
Math. skills	3	1	1	1	3	0	6	2	0	0	2	0
Work experience credit	2	3	1	3	2	0	5	1	0	0	2	0
Other	0	0	0	0	1	0	5	1	0	5	6	1

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Electronic Tech.

TOTAL RESPONSE 40

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	8	8	0	4	4	1	4	8	0	2	1	0
Finding employment	6	10	0	2	3	0	8	6	1	2	2	0
Day care information	1	0	0	1	1	0	14	17	1	2	3	0
Physical disability	1	2	0	1	0	0	14	15	1	2	4	0
Health problem	3	3	0	1	0	0	12	17	1	2	1	0
Commuter information	4	0	0	4	2	0	8	14	1	2	5	0
Choosing major/career	6	6	0	5	3	1	6	11	0	1	1	0
Reading skills	3	5	0	6	4	0	7	11	1	2	1	0
Study skills	4	5	0	8	6	1	5	9	0	1	1	0
Writing skills	4	5	0	8	5	1	5	10	0	1	1	0
Math. skills	3	7	0	6	5	0	8	8	1	1	1	0
Work experience credit	4	7	0	4	2	0	8	10	1	2	2	0
Other	1	1	0	1	0	0	9	8	0	7	12	1

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Fine Arts

TOTAL RESPONSE 3

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	1	0	1	0	0	0	0	1	0	0	0	0
Finding employment	1	0	0	0	0	1	0	1	0	0	0	0
Day care information	0	0	0	0	0	0	1	1	1	0	0	0
Physical disability	0	0	0	0	0	0	1	1	1	0	0	0
Health problem	0	0	0	0	0	0	1	1	1	0	0	0
Commuter information	0	0	0	1	0	0	1	1	1		0	0
Choosing major/career	0	0	0	0	0	0	1	1	1	0	0	0
Reading skills	0	0	0	0	0	1	1	1	0	0	0	0
Study skills	0	0	0	0	0	1	1	1	0	0	0	0
Writing skills	0	0	0	0	0	1	1	1	0	0	0	0
Math. skills	1	0	0	0	0	1	0	1	0	0	0	0
Work experience credit	1	0	0	0	0	1	0	1	0	0	0	0
Other	0	0	0	0	0	0	1	1	0	0	0	1

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = General Studies

TOTAL RESPONSE 33

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	16	4	0	0	0	1	4	7	0	0	1	0
Finding employment	8	0	1	5	3	0	7	8	0	0	1	0
Day care information	0	1	1	0	0	0	20	10	0	0	1	0
Physical disability	0	0	0	1	1	0	19	9	1	0	2	0
Health problem	0	1	0	3	0	0	17	10	1	0	1	0
Commuter information	4	0	0	2	0	1	14	10	0	0	2	0
Choosing major/career	10	2	1	4	4	0	6	4	0	0	2	0
Reading skills	2	4	1	6	2	0	12	4	0	0	2	0
Study skills	8	1	0	4	5	1	8	4	0	0	2	0
Writing skills	6	4	1	7	2	0	7	5	0	0	1	0
Math. skills	4	3	0	10	3	1	6	4	0	0	2	0
Work experience credit	6	3	0	3	0	1	11	8	0	0	1	0
Other	1	1	0	0	0	0	9	7	0	10	4	1

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Languages & Literature

TOTAL RESPONSE **38**

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	10	6	0	6	1	0	9	3	1	0	2	0
Finding employment	10	6	1	5	2	0	9	3	0	1	1	0
Day care information	4	1	1	1	0	0	19	9	0	1	2	0
Physical disability	1	1	0	1	0	1	22	9	0	1	2	0
Health problem	0	1	0	2	1	0	22	8	1	1	2	0
Commuter information	6	1	0	0	3	0	18	5	1	1	3	0
Choosing major/career	9	6	0	9	4	0	5	1	1	2	1	0
Reading skills	5	5	0	5	2	1	15	4	0	0	1	0
Study skills	8	5	0	9	3	0	8	2	1	0	2	0
Writing skills	10	6	0	6	3	0	8	1	1	1	2	0
Math. skills	8	4	0	9	3	0	7	4	1	1	1	0
Work experience credit	5	3	0	7	5	1	11	4	0	2	0	0
Other	0	2	0	1	0	0	10	3	0	14	7	1

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Management

TOTAL RESPONSE 25

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	6	2	1	1	1	0	7	5	2	0	0	0
Finding employment	6	2	1	0	1	0	8	4	2	0	1	0
Day care information	0	3	0	1	0	1	12	5	2	1	0	0
Physical disability	2	0	0	0	0	0	11	6	3	1	2	0
Health problem	1	0	0	0	0	0	11	6	3	2	2	0
Commuter information	1	0	1	3	1	0	9	5	2	1	2	0
Choosing major/career	6	2	1	2	3	0	4	2	2	2	1	0
Reading skills	3	0	1	4	1	1	6	5	1	1	2	0
Study skills	4	0	1	6	2	1	3	4	1	1	2	0
Writing skills	5	0	3	2	4	0	6	2	0	1	2	0
Math. skills	6	1	1	6	5	0	2	1	2	0	1	0
Work experience credit	4	1	1	4	0	0	6	6	2	0	1	0
Other	0	0	0	0	0	0	7	5	1	7	3	2

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Mechanical-Electrical Tech.

TOTAL RESPONSE 20

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	3	6	0	2	5	0	1	4	1	2	0	0
Finding employment	2	10	1	1	1	0	2	4	0	3	0	0
Day care information	0	0	0	1	1	0	4	13	1	3	1	0
Physical disability	0	0	0	1	0	0	4	14	1	3	1	0
Health problem	0	0	0	1	1	0	4	13	1	3	1	0
Commuter information	3	2	0	0	2	0	2	10	1	3	1	0
Choosing major/career	2	3	0	3	4	0	2	8	1	1	0	0
Reading skills	5	2	0	1	3	0	1	10	1	1	0	0
Study skills	3	3	0	4	4	0	1	8	1	0	0	0
Writing skills	5	3	0	0	3	0	1	9	1	2	0	0
Math. skills	3	3	0	3	4	0	0	8	1	2	0	0
Work experience credit	0	4	0	2	5	0	3	5	1	3	1	0
Other	1	0	0	0	0	0	3	7	1	4	8	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Merchandising

TOTAL RESPONSE 12

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	1	2	0	1	0	0	0	1	1	2	0	0
Finding employment	1	2	0	1	1	0	0	0	1	2	0	0
Day care information	0	0	0	0	0	0	0	3	1	2	0	0
Physical disability	0	1	0	0	0	0	2	2	1	2	0	0
Health problem	0	1	0	0	0	0	2	2	1	2	0	0
Commuter information	0	1	0	0	0	0	2	2	1	2	0	0
Choosing major/career	1	0	0	0	2	0	1	1	1	2	0	0
Reading skills	1	0	0	0	1	0	2	2	1	1	0	0
Study skills	1	0	0	1	1	0	1	2	1	1	0	0
Writing skills	0	0	0	0	1	0	2	2	1	2	0	0
Math. skills	1	0	0	1	2	0	1	1	1	1	0	0
Work experience credit	0	1	0	0	1	1	2	1	0	2	0	0
Other	0	1	0	0	0	0	2	0	1	2	2	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Music

TOTAL RESPONSE 21

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	10	4	1	0	3	0	0	1	0	1	1	0
Finding employment	3	4	0	4	1	1	3	3	0	1	1	0
Day care information	2	0	0	1	0	0	7	6	1	1	3	0
Physical disability	0	0	0	0	1	0	9	5	1	2	3	0
Health problem	0	1	0	0	0	0	9	5	1	2	3	0
Commuter information	3	1	0	1	3	0	5	1	1	2	4	0
Choosing major/career	5	3	0	2	1	0	2	4	1	2	1	0
Reading skills	4	5	0	2	2	1	5	1	0	0	1	0
Study skills	3	4	0	6	2	1	2	2	0	0	1	0
Writing skills	4	5	0	4	2	1	2	2	0	1	0	0
Math. skills	2	6	0	4	2	1	4	1	0	1	0	0
Work experience credit	5	2	0	1	4	1	3	1	0	2	2	0
Other	2	1	0	0	0	0	5	3	0	4	5	1

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Nursing, ADN

TOTAL RESPONSE 41

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	11	10	0	2	2	0	11	2	0	1	2	0
Finding employment	9	8	0	4	0	0	11	8	0	1	0	0
Day care information	5	8	0	3	1	0	16	6	0	1	1	0
Physical disability	0	1	0	1	0	0	23	14	0	1	1	0
Health problem	0	0	0	2	2	0	22	13	0	1	1	0
Commuter information	1	2	0	3	0	0	20	13	0	1	1	0
Choosing major/career	8	5	0	5	4	0	11	7	0	1	0	0
Reading skills	7	3	0	6	5	0	12	8	0	0	0	0
Study skills	12	6	0	4	2	0	8	7	0	1	1	0
Writing skills	11	2	0	5	4	0	8	8	0	1	2	0
Math. skills	11	6	0	6	5	0	8	5	0	0	0	0
Work experience credit	7	6	0	5	2	0	10	7	0	3	1	0
Other	0	1	0	0	0	0	7	7	0	18	8	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Nursing, L.V.N.

TOTAL RESPONSE 22

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	6	7	0	1	2	0	4	1	0	1	0	0
Finding employment	6	3	0	3	1	0	2	6	0	1	0	0
Day care information	6	6	0	1	1	0	4	3	0	1	0	0
Physical disability	0	1	0	0	0	0	11	9	0	1	0	0
Health problem	0	0	0	0	1	0	11	9	0	1	0	0
Commuter information	0	2	0	0	1	0	11	7	0	1	0	0
Choosing major/career	3	4	0	3	2	0	5	4	0	1	0	0
Reading skills	4	1	0	3	4	0	5	5	0	0	0	0
Study skills	5	4	0	1	3	0	5	3	0	1	0	0
Writing skills	5	2	0	2	5	0	4	3	0	1	0	0
Math. skills	6	5	0	1	3	0	5	2	0	0	0	0
Work experience credit	4	3	0	5	1	0	1	6	0	2	0	0
Other	0	0	0	0	0	0	2	4	0	10	6	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Office Admin.-Clerical

TOTAL RESPONSE 15

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	3	2	1	1	2	2	0	2	1	0	0	1
Finding employment	1	3	3	2	0	0	1	2	1	0	1	1
Day care information	2	0	0	1	0	0	1	4	3	0	2	2
Physical disability	1	0	0	0	1	0	3	3	3	0	2	2
Health problem	1	0	0	0	1	0	3	3	3	0	2	2
Commuter information	1	1	2	0	0	0	3	3	2	0	2	1
Choosing major/career	1	1	2	1	2	1	2	1	1	0	2	1
Reading skills	1	1	1	1	0	1	2	4	2	0	1	1
Study skills	1	2	2	1	1	1	2	3	2	0	0	0
Writing skills	1	2	0	1	1	2	2	3	2	0	0	1
Math. skills	3	2	2	0	0	1	1	3	2	0	1	0
Work experience credit	1	1	2	2	1	0	1	2	2	0	2	1
Other	1	0	0	0	0	0	0	4	1	3	2	4

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Office Admin.-
Gen. Secretarial

TOTAL RESPONSE 22

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	3	8	1	1	1	1	0	6	3	0	0	0
Finding employment	1	7	1	2	3	0	1	4	3	0	1	1
Day care information	2	1	1	1	3	0	1	10	3	0	1	1
Physical disability	1	0	0	0	3	0	3	11	4	0	1	1
Health problem	1	2	0	0	4	0	3	8	4	0	1	1
Commuter information	1	3	2	0	4	1	3	7	2	0	1	0
Choosing major/career	1	7	2	1	2	1	2	5	2	0	1	0
Reading skills	1	4	1	1	3	1	2	8	3	0	0	0
Study skills	1	6	1	1	2	1	2	7	3	0	0	0
Writing skills	1	8	1	1	4	1	2	3	3	0	0	0
Math. skills	3	4	2	0	3	1	1	7	2	0	1	0
Work experience credit	1	5	1	2	3	0	1	6	3	0	1	1
Other	1	2	0	0	0	0	0	6	2	0	7	3

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = **Physical Education**

TOTAL RESPONSE 31

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	9	3	1	2	1	0	11	3	0	1	0	0
Finding employment	9	2	1	4	0	0	9	5	0	1	0	0
Day care information	0	1	0	1	0	0	20	6	1	2	0	0
Physical disability	0	0	0	0	1	0	21	6	1	2	0	0
Health problem	3	0	0	2	1	0	18	6	1	0	0	0
Commuter information	3	0	1	3	1	0	16	6	0	1	0	0
Choosing major/career	10	0	0	7	1	0	6	6	1	0	0	0
Reading skills	8	1	0	5	2	0	8	4	1	2	0	0
Study skills	9	2	0	5	3	0	8	2	1	1	0	0
Writing skills	10	2	0	7	1	0	5	3	1	1	1	0
Math. skills	8	1	1	7	4	0	6	2	0	2	0	0
Work experience credit	5	4	0	5	2	0	11	1	1	2	0	0
Other	1	0	0	0	0	0	9	3	1	13	4	0

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = **Science**, Math. & Engineering

TOTAL RESPONSE 156

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	53	12	0	31	5	1	32	10	3	8	1	0
Finding employment	45	13	1	27	3	1	46	11	2	6	1	0
Day care information	6	8	0	5	0	1	101	20	3	12	0	0
Physical disability	1	3	0	4	0	0	106	23	4	13	2	0
Health problem	4	3	0	6	0	0	102	23	4	12	2	0
Commuter information	16	2	1	10	3	1	85	21	2	13	2	0
Choosing major/career	38	8	1	38	7	1	39	11	2	9	2	0
Reading skills	24	3	1	28	6	0	62	17	2	10	2	1
Study skills	36	7	2	39	6	1	39	13	0	10	2	1
Writing skills	45	7	3	28	7	0	44	12	0	7	2	1
Math. skills	37	5	2	42	8	1	34	13	1	11	2	0
Work experience credit	18	7	1	30	11	1	62	8	1	14	2	1
Other	5	0	0	1	0	0	47	10	2	71	18	2

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Social Sciences

TOTAL RESPONSE 70

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	21	8	0	10	4	2	16	4	2	3	0	0
Finding employment	13	2	1	13	4	1	20	10	2	4	0	0
Day care information	6	3	1	1	1	1	38	12	2	5	0	0
Physical disability	1	1	0	3	2	0	42	13	4	4	0	0
Health problem	1	3	0	3	1	0	43	12	4	3	0	0
Commuter information	6	0	0	5	4	2	35	11	2	3	1	0
Choosing major/career	26	3	2	11	7	0	12	5	2	1	1	0
Reading skills	11	3	1	8	5	1	25	7	2	6	1	0
Study skills	15	5	2	14	6	0	15	4	2	6	1	0
Writing skills	17	5	2	12	8	0	19	3	2	2	0	0
Math. skills	17	2	3	14	6	0	17	7	1	2	1	0
Work experience credit	12	5	1	13	4	1	20	6	2	5	1	0
Other	1	1	0	1	0	0	16	2	2	32	13	2

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Other

TOTAL RESPONSE 100

	YES			MAYBE			NO			NO RESPONSE		
AREA	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	26	9	2	19	4	2	22	10	1	2	2	1
Finding employment	19	12	5	19	4	1	26	6	0	5	3	0
Day care information	3	2	1	7	0	0	54	20	4	5	3	1
Physical disability	2	0	1	3	0	0	60	21	4	4	4	1
Health problem	3	0	1	4	1	0	58	20	4	4	4	1
Commuter information	9	4	1	8	4	0	46	12	4	6	5	1
Choosing major/career	29	8	2	19	6	2	19	7	1	2	4	1
Reading skills	13	5	1	19	7	2	32	9	2	5	4	1
Study skills	18	7	2	19	7	1	27	7	3	5	4	0
Writing skills	19	8	1	16	3	2	30	11	2	4	3	1
Math. skills	20	7	2	21	5	2	24	10	2	4	3	0
Work experience credit	13	8	2	21	5	2	30	6	2	5	6	0
Other	2	1	0	2	0	1	26	9	1	39	15	4

TABLE 13B - CONTINUED

AREAS STUDENTS WOULD LIKE HELP WITH - DISTRIBUTION BY EDUCATIONAL GOALS

(RAW NUMBER)

MAJOR = Not Listed or Undecided

TOTAL RESPONSE 204

AREA	YES			MAYBE			NO			NO RESPONSE		
	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest	Four year college degree or beyond	Two year college degree or cert. only	Take courses for personal interest
Financing education	39	39	4	22	16	2	22	33	9	7	9	2
Finding employment	38	39	6	17	9	1	29	38	8	6	11	2
Day care information	4	9	2	5	9	0	73	61	12	8	18	3
Physical disability	2	4	1	1	4	0	76	72	14	11	17	2
Health problem	2	4	1	5	5	0	74	71	14	9	17	2
Commuter information	7	7	2	12	10	2	60	60	11	11	20	2
Choosing major/career	31	22	5	21	18	2	27	42	8	11	15	2
Reading skills	16	23	6	28	17	2	37	44	8	9	13	1
Study skills	18	26	5	37	23	4	26	34	6	9	14	2
Writing skills	23	27	6	31	22	4	27	35	6	9	13	1
Math. skills	22	23	4	33	23	6	28	38	6	7	13	1
Work experience credit	21	19	3	17	16	3	42	45	10	10	17	1
Other	2	5	0	4	1	0	34	36	8	50	55	9

TABLE 14

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
American Legion	12	38.5 (7.91)	22.2 (8.00)	14.4 (5.88)	17.0 (9.90)	14.9 (6.10)	18.9 (9.05)
Argonaut	5	36.4 (5.73)	16.0 (2.55)	11.6 (6.54)	11.6 (3.58)	15.8 (7.26)	19.2 (9.98)
Bella Vista	5	42.2 (6.87)	21.6 (6.02)	15.4 (3.59)	17.4 (3.78)	15.4 (2.51)	20.6 (6.80)
Bishop Armstrong	2	45.5 (21.92)	22.5 (23.33)	18.5 (17.68)	17.5 (12.02)	17.5 (10.61)	21.0 (14.14)
Bishop Manogue	11	48.9 (5.79)	25.6 (7.05)	18.6 (5.47)	20.8 (8.36)	16.4 (5.03)	20.3 (7.56)
Burbank	47	41.9 (9.53)	22.2 (9.95)	17.5 (8.32)	19.8 (9.36)	14.9 (5.70)	20.9 (9.16)
Casa Robles	4	34.5 (22.99)	20.8 (7.89)	16.25 (5.12)	17.5 (3.00)	15.0 (4.90)	14.0 (4.83)

TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Christian Brothers	21	42.5 (11.07)	28.9 (6.37)	21.1 (6.09)	23.4 (6.97)	18.7 (6.2)	24.7 (7.28)
Cordova	22	42.4 (8.99)	24.8 (8.67)	19.2 (6.04)	21.7 (7.64)	18.3 (5.73)	22.5 (6.84)
Davis	12	43.8 (6.62)	25.7 (6.1)	18.8 (6.71)	21.9 (7.56)	14.8 (4.24)	22.3 (8.79)
Daylor	5	36.6 (4.51)	21.0 (4.42)	14.6 (7.67)	19.0 (6.67)	15.0 (3.08)	21.0 (6.04)
Del Campo	3	45.0 (3.00)	34.7 (4.51)	21.3 (7.64)	25.3 (7.51)	26.0 (2.65)	26.3 (5.86)
Delta	5	43.0 (11.79)	23.6 (6.19)	18.8 (6.02)	18.00 (2.55)	16.60 (2.88)	21.4 (11.39)
El Camino	2	45.5 (9.19)	22.0 (2.83)	17.5 (7.78)	26.5 (3.54)	20.5 (6.36)	27.0 (11.31)

TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Elk Grove	21	41.3 (6.22)	24.4 (7.30)	15.3 (6.32)	21.2 (7.02)	15.6 (5.06)	20.9 (7.95)
Encina	6	44.8 (8.33)	29.0 (6.90)	23.3 (5.43)	19.7 (4.50)	18.7 (5.32)	21.7 (9.91)
Folsom	3	41.3 (3.51)	28.3 (5.77)	20.7 (4.62)	23.3 (7.57)	18.0 (5.29)	21.0 (11.53)
Foothill	4	45.3 (4.57)	31.3 (4.79)	23.8 (4.35)	28.8 (6.95)	15.8 (3.86)	25.5 (7.19)
Freemont	16	34.9 (13.37)	19.4 (9.63)	17.1 (8.13)	19.3 (11.47)	13.9 (5.97)	15.9 (9.68)
Grant Union	16	41.6 (8.77)	21.1 (7.25)	16.1 (6.48)	18.9 (9.72)	12.9 (4.54)	16.5 (8.19)
Highlands	8	46.0 (5.45)	21.5 (9.68)	16.8 (6.90)	24.4 (8.58)	17.0 (5.07)	15.9 (8.87)

TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Jesuit	1	51.0 (0)	37.0 (0)	26.0 (0)	32.0 (0)	24.0 (0)	31.0 (0)
Johnson	69	41.6 (10.57)	22.7 (8.20)	18.5 (6.71)	22.7 (9.94)	16.5 (5.73)	20.4 (8.97)
Kennedy	81	45.8 (9.10)	25.6 (9.11)	20.0 (6.29)	22.7 (8.38)	17.0 (5.61)	21.0 (9.03)
La Sierra	4	40.0 (10.55)	19.5 (11.56)	17.3 (6.50)	6.5 (4.36)	11.5 (4.36)	8.0 (4.08)
McClatchy	70	43.6 (11.29)	23.9 (8.51)	20.8 (6.28)	22.7 (9.16)	16.0 (6.22)	21.1 (9.24)
Mercy	1	49.0 (0)	26.0 (0)	21.0 (0)	15.0 (0)	28.0 (0)	34.0 (0)
Mira Loma	4	34.5 (18.43)	25.0 (9.63)	19.0 (8.16)	18.0 (9.90)	18.8 (7.23)	23.3 (10.72)

TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Norte Del Rio	8	38.6 (9.63)	21.9 (9.55)	17.5 (5.21)	23.1 (4.73)	15.4 (3.93)	20.3 (9.81)
Omochumnes	1	46.0 (0)	31.0 (0)	15.0 (0)	14.0 (0)	17.0 (0)	25.0 (0)
Ponderosa	1	28.0 (0)	16.0 (0)	14.0 (0)	4.0 (0)	20.0 (0)	21.0 (0)
Rio Americano	3	49.3 (6.51)	26.3 (2.08)	20.3 (6.43)	30.7 (6.66)	17.0 (2.65)	16.3 (5.51)
River City	20	40.8 (9.28)	26.4 (6.50)	20.3 (6.39)	23.5 (7.79)	16.4 (6.11)	19.6 (9.12)
Sacramento Adult	1	7.00 (0)	16.0 (0)	11.0 (0)	14.0 (0)	13.0 (0)	1.0 (0)
Sacramento High	53	41.5 (10.06)	21.3 (8.4)	17.2 (6.6)	21.5 (9.90)	14.6 (5.61)	20.0 (8.43)

TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Sacramento Skills Center	1	39.0 (0)	7.0 (0)	16.0 (0)	10.0 (0)	27.0 (0)	16.0 (0)
Sacramento State Prep.	1	8.0 (0)	17.0 (0)	15.0 (0)	23.0 (0)	11.0 (0)	6.0 (0)
St. Francis	10	45.3 (7.90)	26.1 (5.70)	18.4 (3.41)	24.3 (8.8)	10.7 (2.98)	18.6 (8.58)
San Juan	3	35.3 (11.5)	20.7 (10.41)	19.0 (5.0)	15.7 (0.58)	12.0 (3.0)	20.00 (9.17)
Valley	19	44.5 (6.73)	21.0 (8.13)	16.3 (4.84)	20.1 (7.21)	14.6 (5.93)	18.7 (8.79)
Vista Nueva	1	20.0 (0)	13.0 (0)	10.0 (0)	13.0 (0)	11.0 (0)	3.0 (0)
Woodland	9	43.0 (8.72)	23.9 (11.06)	18.1 (6.79)	21.7 (8.87)	17.4 (3.05)	24.2 (6.02)

TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Yolo	1	40,0 (0)	30,0 (0)	13,0 (0)	20.0 (0)	17.0 (0)	21.0 (0)
Other Sacramento **Area High Schools**	16	40,94 (7,43)	23,0 (7,13)	17.4 (7,71)	21.4 (6,79)	14.6 (5,63)	20.4 (7.88)
Alameda County	6	34.17 (20,82)	14.33 (12,24)	11.83 (8.70)	18,0 (12,08)	13.0 (6,90)	17.50 (11.20)
Butte County	5	47.2 (4.60)	28,8 (7.92)	15.4 (7,73)	21.2 (9,65)	13.6 (4,83)	17.6 (9,10)
Calaveras County	1	42.0 (0)	14,0 (0)	19,0 (0)	19,0 (0)	27,0 (0)	26.0 (0)
Contra Costa **County**	11	43,7 (11,17)	25,8 (9,59)	19,4 (4,99)	19,4 (10,58)	14,4 (5,63)	19.8 (10,68)
El **Dorado County**	1	29,0 (0)	17.0 (0)	19,0 (0)	15,0 (0)	14,0 (0)	24,0 (0)

TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Fresno County	6	38.8 (8.75)	25.0 (9.59)	17.8 (5.34)	19.7 (9.33)	18.5 (6.98)	21.2 (9.97)
Glenn County	1	40.0 (0)	10.0 (0)	9.0 (0)	4.0 (0)	12.0 (0)	11.0 (0)
Kern County	3	41.3 (12.5)	25.3 (10.41)	18.0 (3.61)	22.3 (6.03)	13.0 (7.21)	14.3 (13.80)
Lassen County	3	45.7 (3.06)	30.3 (4.93)	16.7 (8.02)	22.3 (9.29)	17.0 (7.21)	22.3 (9.45)
Los Angeles County	13	44.0 (7.05)	27.2 (8.18)	17.5 (7.05)	19.5 (10.00)	15.3 (4.63)	19.5 (7.83)
Marin County	1	61.0 (0)	38.0 (0)	24.0 (0)	19.0 (0)	26.0 (0)	19.0 (0)
Merced County	3	37.7 (4.51)	26.0 (6.56)	14.0 (4.00)	20.3 (5.86)	12.7 (2.89)	23.0 (10.00)

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TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
Monterey County	1	46.0 (0)	14.0 (0)	28.0 (0)	26.0 (0)	23.0 (0)	15.0 (0)
Napa County	4	37.5 (11.82)	21.3 (11.24)	15.0 (4.16)	13.3 (7.89)	14.0 (5.35)	12.8 (8.18)
Nevada County	4	42.5 (4.51)	19.8 (5.56)	19.5 (8.6)	21.8 (6.13)	16.3 (6.85)	20.5 (12.92)
Orange County	1	37.0 (0)	25.0 (0)	8.0 (0)	24.0 (0)	17.0 (0)	20.0 (0)
Placer County	7	45.0 (9.98)	29.3 (8.75)	23.9 (2.91)	24.6 (3.74)	22.4 (5.80)	24.4 (11.[illegible])
Riverside County	1	43.0 (0)	18.0 (0)	15.0 (0)	16.0 (0)	14.0 (0)	22.0 (0)
San Benito County	1	59.0 (0)	30.0 (0)	28.0 (0)	24.0 (0)	23.0 (0)	27.0 (0)

TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy	Mechanical Reasoning	Space Relations
San Diego County	4	48.3 (12.26)	24.8 (10.34)	21.5 (6.66)	19.8 (6.18)	14.3 (3.30)	14.0 (13.29)
San Francisco County	7	37.3 (19.42)	19.3 (12.37)	17.4 (9.24)	12.7 (11.31)	17.0 (5.60)	13.9 (6.77)
San Joaquin County	9	38.6 (14.35)	22.3 (11.42)	18.4 (7.8)	15.9 (9.98)	14.7 (5.94)	16.2 (13.23)
Santa Barbara County	2	33.5 (13.44)	15.5 (12.02)	12,0 (5.66)	9.5 (0.71)	16.5 (3.54)	22.5 (4.95)
Santa Clara County	1	41.0 (0)	16.0 (0)	11.0 (0)	14.0 (0)	13.0 (0)	9.0 (0)
Shasta County	1	13.0 (0)	24.0 (0)	18.0 (0)	20.0 (0)	16.0 (0)	20.0 (0)
Siskiyou County	1	53.0 (0)	32,0 (0)	27.0 (0)	28.0 (0)	27.0 (0)	29.0 (0)

TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy:	Mechanical Reasoning	Space Relations
Solano County	9	47.8 (6.55)	24.3 (9.66)	19.2 (8.12)	20.7 (8.43)	16.6 (5.88)	22.0 (8.22)
Tehama County	2	44.5 (12.02)	21.5 (20.51)	18.5 (12.02)	19.0 (2.83)	16.5 (0.71)	13.5 (2.12)
Tulare County	2	46.5 (10.61)	20.5 (0.71)	17.0 (1.41)	5.5 (7.78)	4.0 (5.66)	7.0 (9.90)
Ventura County	1	37.0 (0)	13.0 (0)	15.0 (0)	26.0 (0)	11.0 (0)	24.0 (0)
Yolo County	4	47.3 (6.18)	31.3 (3.30)	19.0 (4.08)	21.0 (7.75)	18.3 (3.77)	18.3 (7.23)
Yuba County	2	47.0 (4.24)	27.5 (7.78)	16.0 (11.31)	20.0 (2.83)	19.5 (10.61)	18.0 (7.07)
Out of State High School	68	41.1 (8.67)	24.5 (8.28)	17.6 (6.54)	19.5 (8.99)	17.9 (6.73)	21.7 (9.64)

TABLE 14 - CONTINUED

TEST RESULTS BY HIGH SCHOOL LAST ATTENDED
(AVERAGE SCORE & STANDARD DEVIATION)

HIGH SCHOOL	Number attended	Language usage	Reading	Numerical	Clerical Speed/ Accuracy:	Mechanical Reasoning	Space Relations
Foreign Country High School	42	41,0 (8,92)	18,5 (7,79)	21,1 (6,74)	19,8 (9.60)	16,2 (5,50)	21,5 (8.89)
Did not list High School	47	36.5 (13,94)	18,9 (9.55)	16.2 (6.55)	18,0 (8,94)	14.4 (6.26)	19.7 (9.96)

TABLE 15A

ASSET Language Usage Scores Sorted in Descending Order - by Major

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MAJOR : COMMUNICATION (GENERAL)          MAJOR CODE :  8      NUMBER :  26      RANK :  1
 <------------ AVERAGES ------------>   <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 49.08 25.08 18.12 23.92 14.85 17.77    6.47   7.66   5.77   7.21   4.67   7.78

MAJOR : DENTAL HYGIENE                   MAJOR CODE : 13      NUMBER :  12      RANK :  2
 <------------ AVERAGES ------------>   <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 48.83 24.50 20.42 22.50 14.67 22.42    5.65  10.43   3.68   8.21   4.98   6.32

MAJOR : THEATRE ARTS                     MAJOR CODE : 43      NUMBER :   8      RANK :  3
 <------------ AVERAGES ------------>   <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 48.50 32.63 21.88 16.88 17.25 20.50    4.44   4.53   3.27   5.14   5.04   9.15

MAJOR : OFFICE ADM-LEGAL SECRETARIAL     MAJOR CODE : 35      NUMBER :   6      RANK :  4
 <------------ AVERAGES ------------>   <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 47.50 24.67 18.17 27.17 13.50 19.33    5.01   4.84   4.62   3.25   2.88   7.06

MAJOR : FINE ARTS                        MAJOR CODE : 19      NUMBER :   3      RANK :  5
 <------------ AVERAGES ------------>   <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 46.67 24.67 16.33 21.33 17.00 18.33    5.03   5.69   1.53   6.43   5.00   7.02

MAJOR : DENTAL ASSISTING                 MAJOR CODE : 12      NUMBER :  18      RANK :  6
 <------------ AVERAGES ------------>   <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 45.67 23.39 17.72 19.39 12.44 18.33    8.38   9.46   6.23   7.41   3.97   7.16

MAJOR : PRINTING TECH                    MAJOR CODE : 38      NUMBER :  10      RANK :  7
 <------------ AVERAGES ------------>   <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 45.20 27.40 23.10 24.00 18.90 24.30    8.59   7.24   4.86   8.46   4.84   9.49

MAJOR : ACCOUNTING                       MAJOR CODE :  1      NUMBER :  55      RANK :  8
 <------------ AVERAGES ------------>   <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.53 25.09 21.53 24.49 15.45 21.45    7.49   7.91   5.75   8.12   5.51   8.32
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MAJOR : LIBRARY TECH                     MAJOR CODE : 25      NUMBER :   2      RANK :  9
 <------------ AVERAGES ------------>   <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.50 25.00 22.00 19.00 22.00 23.00    2.12   1.41   2.83   1.41   7.07   1.41
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MAJOR : MUSIC                                      MAJOR CODE : 30      NUMBER :  21      RANK :  10
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.33 22.43 17.52 19.81 16.95 21.67    6.95  8.23  5.58  6.58  5.51  8.49


MAJOR : INSTRUCTIONAL ASSISTING                    MAJOR CODE : 23      NUMBER :   3      RANK :  11
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.33 23.00 13.33 14.33 12.67 14.33    8.74  4.36  5.03 18.34 13.01 15.63


MAJOR : ELECTRONICS TECH                           MAJOR CODE : 16      NUMBER :  41      RANK :  12
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.29 24.83 22.37 21.32 20.17 25.05    8.56  9.48  6.32  9.31  5.97  9.25


MAJOR : MERCHANDISING                              MAJOR CODE : 28      NUMBER :   8      RANK :  13
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.25 28.38 20.00 23.75 15.63 26.88    7.65  7.48  7.29  8.26  4.96  3.72


MAJOR : SCIENCE MATH & ENGINEERING                 MAJOR CODE : 40      NUMBER : 157      RANK :  14
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.24 25.89 20.73 21.88 18.18 22.55    9.42  7.82  6.02  8.23  5.83  9.36


MAJOR : SOCIAL SCIENCE                             MAJOR CODE : 41      NUMBER :  72      RANK :  15
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.00 25.43 17.64 20.36 14.83 19.78    9.23  7.94  7.45  8.76  5.49  8.77


MAJOR : ADVERTISING                                MAJOR CODE :  3      NUMBER :   2      RANK :  16
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.00 29.50 15.50 33.50 18.00 20.00    1.41  0.71  3.54  0.71  8.49  5.66


MAJOR : FAMILY & CONSUMER SCI                      MAJOR CODE : 18      NUMBER :   4      RANK :  17
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 43.75 24.75 16.75 18.25 13.75 20.50   10.21  8.06  6.90  7.27  1.71 10.08


MAJOR : GENERAL STUDIES                            MAJOR CODE : 20      NUMBER :  33      RANK :  18
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 43.33 25.79 18.45 22.79 16.48 20.64   10.24  9.05  5.82  9.63  5.25  9.64
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MAJOR : BUSINESS (GENERAL)                           MAJOR CODE :  7       NUMBER : 254       RANK :  19
 <------------ AVERAGES ------------->              <------- STANDARD DEVIATION ------>
 *(1)*   (2)    (3)    (4)    (5)    (6)             (1)    (2)    (3)    (4)    (5)    (6)
 42.52  23.98  19.15  22.67  15.81  20.51            9.66   8.19   6.37   8.78   5.90   8.68

MAJOR : REAL ESTATE                                  MAJOR CODE : 39       NUMBER :   4       RANK :  20
 <------------ AVERAGES ------------->              <------- STANDARD DEVIATION ------>
 *(1)*   (2)    (3)    (4)    (5)    (6)             (1)    (2)    (3)    (4)    (5)    (6)
 42.50  24.25  16.25  20.25  18.75  23.50            2.52   9.95   3.50   6.02   5.12   7.55

MAJOR : OFFICE ADM-GENERAL SECRETARIAL               MAJOR CODE : 34       NUMBER :  24       RANK :  21
 <------------ AVERAGES ------------->              <------- STANDARD DEVIATION ------>
 *(1)*   (2)    (3)    (4)    (5)    (6)             (1)    (2)    (3)    (4)    (5)    (6)
 42.42  21.67  15.92  20.42  13.54  17.92            9.58   9.60   6.63   9.34   4.85   7.43

MAJOR : AVIATION MAINTENANCE TECH                    MAJOR CODE :  5       NUMBER :  26       RANK :  22
 <------------ AVERAGES ------------->              <------- STANDARD DEVIATION ------>
 *(1)*   (2)    (3)    (4)    (5)    (6)             (1)    (2)    (3)    (4)    (5)    (6)
 42.27  27.54  21.19  20.77  22.58  27.58            9.82   9.16   6.14   5.81   5.04   5.00

MAJOR : DATA PROCESSING                              MAJOR CODE : 11       NUMBER : 144       RANK :  23
 <------------ AVERAGES ------------->              <------- STANDARD DEVIATION ------>
 *(1)*   (2)    (3)    (4)    (5)    (6)             (1)    (2)    (3)    (4)    (5)    (6)
 42.15  22.78  19.38  21.44  16.56  20.99            8.62   8.56   6.26   8.30   6.03   9.15

MAJOR : OFFICE ADM-MEDICAL SECRETARIAL               MAJOR CODE : 36       NUMBER :   3       RANK :  24
 <------------ AVERAGES ------------->              <------- STANDARD DEVIATION ------>
 *(1)*   (2)    (3)    (4)    (5)    (6)             (1)    (2)    (3)    (4)    (5)    (6)
 42.00  27.00  13.33  22.67  13.00  16.33            8.89   9.54   6.66   3.21   2.65   3.21

MAJOR : DRAFTING TECH                                MAJOR CODE : 14       NUMBER :   8       RANK :  25
 <------------ AVERAGES ------------->              <------- STANDARD DEVIATION ------>
 *(1)*   (2)    (3)    (4)    (5)    (6)             (1)    (2)    (3)    (4)    (5)    (6)
 41.75  22.13  20.13  21.00  18.50  28.13           10.99   9.49   7.47   9.53   6.26   3.48

MAJOR : ART                                          MAJOR CODE :  4       NUMBER :  32       RANK :  26
 <------------ AVERAGES ------------->              <------- STANDARD DEVIATION ------>
 *(1)*   (2)    (3)    (4)    (5)    (6)             (1)    (2)    (3)    (4)    (5)    (6)
 41.72  22.97  16.38  17.97  15.16  18.16           11.25  10.19   8.27  10.66   6.70  10.82

MAJOR : LANGUAGES & LITERATURE                       MAJOR CODE : 24       NUMBER :  38       RANK :  27
 <------------ AVERAGES ------------->              <------- STANDARD DEVIATION ------>
 *(1)*   (2)    (3)    (4)    (5)    (6)             (1)    (2)    (3)    (4)    (5)    (6)
 41.45  23.16  16.47  18.74  16.16  19.61           14.04   8.99   7.11   9.01   6.17   8.88
```

231

232

```
MAJOR : MANAGEMENT                     MAJOR CODE : 26      NUMBER :  25      RANK :  28
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 41.40 24.00 17.12 19.48 14.16 20.76  10.33  9.37  6.19  9.82  5.72  9.79

MAJOR : PHOTOGRAPHY                    MAJOR CODE :  9      NUMBER :   9      RANK :  29
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 41.00 23.33 16.78 18.78 15.56 20.11   9.53  9.38  8.53 10.29  4.69  9.73

MAJOR : OTHERS                         MAJOR CODE : 46      NUMBER : 103      RANK :  30
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 40.94 22.16 16.72 20.19 14.77 18.94  10.59  9.18  6.39  8.75  5.43  8.47

MAJOR : NURSING (ADN)                  MAJOR CODE : 31      NUMBER :  41      RANK :  31
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 40.83 21.61 18.17 20.83 13.78 16.88  10.90 10.00  6.63  9.72  5.40  9.39

MAJOR : MECHANICAL-ELECT TECH          MAJOR CODE : 27      NUMBER :  24      RANK :  32
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 40.83 21.88 20.58 19.58 20.29 22.38   8.26  8.03  6.48  8.83  5.76  7.96

MAJOR : PHYSICAL EDUCATION             MAJOR CODE : 37      NUMBER :  31      RANK :  33
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 40.19 22.16 18.16 22.65 14.61 17.84  11.62  8.45  6.21  8.42  5.61  9.09

MAJOR : EARLY CHILDHOOD ED             MAJOR CODE : 15      NUMBER :  19      RANK :  34
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 40.00 19.89 14.68 18.26 12.26 14.26  11.27  8.48  5.32 10.23  4.98  7.68

MAJOR : ADM OF JUSTICE                 MAJOR CODE :  2      NUMBER :  77      RANK :  35
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 39.90 22.77 16.44 19.09 16.23 19.83  11.33  8.53  6.96  8.31  5.13  8.18

MAJOR : BOOKKEEPING & OFFICE MANAGEMENT MAJOR CODE :  6      NUMBER :   5      RANK :  36
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
 *(1)*  (2)   (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 39.60 27.20 19.80 23.80 14.00 20.40  12.40  7.79  2.68 10.71  5.39  5.94
```

```
MAJOR : NURSING (LVN)                            MAJOR CODE : 32      NUMBER :  22      RANK :  37
 <------------ AVERAGES ------------->          <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 39.45 21.73  19.14  19.64  15.09  16.73       12.12  10.09   5.72   7.30   4.82   7.73

MAJOR : SOCIAL SERVICES ASSISTING                MAJOR CODE : 42      NUMBER :   4      RANK :  38
 <------------ AVERAGES ------------->          <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 39.25 15.00  15.75  19.50  10.75  19.50        1.89   1.83   4.35   5.45   5.19   4.20

MAJOR : COSMETOLOGY                              MAJOR CODE : 10      NUMBER :  22      RANK :  39
 <------------ AVERAGES ------------->          <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 38.82 20.68  14.00  20.23  13.50  17.77        9.40   8.17   7.50  10.73   4.51   7.54

MAJOR : NOT LISTED                               MAJOR CODE : 47      NUMBER : 210      RANK :  40
 <------------ AVERAGES ------------->          <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 38.73 20.77  16.73  18.78  15.85  19.57       11.33   8.98   7.17   9.36   5.68   9.12

MAJOR : GENERAL TECH                             MAJOR CODE : 21      NUMBER :   4      RANK :  41
 <------------ AVERAGES ------------->          <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 34.75 16.50  13.00  17.75  17.75  22.50       14.41  11.09   8.12  13.15   3.59   7.33

MAJOR : OFFICE ADM-CLERICAL                      MAJOR CODE : 33      NUMBER :  14      RANK :  42
 <------------ AVERAGES ------------->          <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 32.79 18.64  12.86  17.93  11.07  12.14       11.27   9.87   6.22  10.10   4.98   9.02

MAJOR : METALS INDUSTRY TECH                     MAJOR CODE : 29      NUMBER :   5      RANK :  43
 <------------ AVERAGES ------------->          <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 28.80 14.60   6.80  13.00  13.80  14.60       17.11   9.79   6.61  10.37   8.41  12.10

MAJOR : WOMEN'S STUDIES                          MAJOR CODE : 45      NUMBER :   1      RANK :  44
 <------------ AVERAGES ------------->          <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
  0.00  0.00   0.00   0.00   0.00   0.00        0.00   0.00   0.00   0.00   0.00   0.00
   235                                                                                    236
MAJOR : TRANSPORTATION                           MAJOR CODE : 44      NUMBER :   1      RANK :  45
 <------------ AVERAGES ------------->          <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
  0.00  0.00   0.00   0.00   0.00   0.00        0.00   0.00   0.00   0.00   0.00   0.00
```

```
MAJOR : HUMANITIES                          MAJOR CODE : 22     NUMBER :   1      RANK :  46
 <----------- AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
  0.00 23.00 26.00 17.00 29.00 29.00    0.00   0.00   0.00   0.00   0.00   0.00

MAJOR : ETHNIC STUDIES                      MAJOR CODE : 17     NUMBER :   1      RANK :  47
 <----------- AVERAGES ------------->  <------- STANDARD DEVIATION ------>
 *(1)*  (2)    (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
  0.00  0.00   0.00   0.00   0.00   0.00    0.00   0.00   0.00   0.00   0.00   0.00
```

TABLE 15B

ASSET Reading Scores Sorted in Descending Order - by Major

```
MAJOR : THEATRE ARTS                     MAJOR CODE : 43      NUMBER :   8       RANK :  1
 <------------ AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 48.50 32.63 21.88 16.88 17.25 20.50   4.44   4.53   3.27   5.14   5.04   9.15

MAJOR : ADVERTISING                      MAJOR CODE :  3      NUMBER :   2       RANK :  2
 <------------ AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.00 29.50 15.50 33.50 18.00 20.00   1.41   0.71   3.54   0.71   8.49   5.66

MAJOR : MERCHANDISING                    MAJOR CODE : 28      NUMBER :   8       RANK :  3
 <------------ AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.25 28.38 20.00 23.75 15.63 26.88   7.65   7.48   7.29   8.26   4.96   3.72

MAJOR : AVIATION MAINTENANCE TECH        MAJOR CODE :  5      NUMBER :  26       RANK :  4
 <------------ AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.27 27.54 21.19 20.77 22.58 27.58   9.82   9.16   6.14   5.81   5.04   5.00

MAJOR : PRINTING TECH                    MAJOR CODE : 38      NUMBER :  10       RANK :  5
 <------------ AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 45.20 27.40 23.10 24.00 18.90 24.30   8.59   7.24   4.86   8.46   4.84   9.49

MAJOR : BOOKKEEPING & OFFICE MANAGEMENT MAJOR CODE :  6      NUMBER :   5       RANK :  6
 <------------ AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 39.60 27.20 19.80 23.80 14.00 20.40  12.40   7.79   2.68  10.71   5.39   5.94

MAJOR : OFFICE ADM-MEDICAL SECRETARIAL  MAJOR CODE : 36      NUMBER :   3       RANK :  7
 <------------ AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.00 27.00 13.33 22.67 13.00 16.33   8.89   9.54   6.66   3.21   2.65   3.21

MAJOR : SCIENCE MATH & ENGINEERING       MAJOR CODE : 40      NUMBER : 157       RANK :  8
 <------------ AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.24 25.89 20.73 21.88 18.18 22.55   9.42   7.82   6.02   8.23   5.83   9.36

MAJOR : GENERAL STUDIES                  MAJOR CODE : 20      NUMBER :  33       RANK :  9
 <------------ AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 43.33 25.79 18.45 22.79 16.48 20.64  10.24   9.05   5.82   9.63   5.25   9.64
```

```
MAJOR : SOCIAL SCIENCE                  MAJOR CODE : 41      NUMBER :  72      RANK :  10
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.00 25.43 17.64 20.36 14.83 19.78    9.23  7.94  7.45  8.76  5.49  8.77

MAJOR : ACCOUNTING                      MAJOR CODE :  1      NUMBER :  55      RANK :  11
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.53 25.09 21.53 24.49 15.45 21.45    7.49  7.91  5.75  8.12  5.51  8.32

MAJOR : COMMUNICATION (GENERAL)         MAJOR CODE :  8      NUMBER :  26      RANK :  12
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 49.08 25.08 18.12 23.92 14.85 17.77    6.47  7.66  5.77  7.21  4.67  7.78

MAJOR : LIBRARY TECH                    MAJOR CODE : 25      NUMBER :   2      RANK :  13
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.50 25.00 22.00 19.00 22.00 23.00    2.12  1.41  2.83  1.41  7.07  1.41

MAJOR : ELECTRONICS TECH                MAJOR CODE : 16      NUMBER :  41      RANK :  14
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 44.29 24.83 22.37 21.32 20.17 25.05    8.56  9.48  6.32  9.31  5.97  9.25

MAJOR : FAMILY & CONSUMER SCI           MAJOR CODE : 18      NUMBER :   4      RANK :  15
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 43.75 24.75 16.75 18.25 13.75 20.50   10.21  8.06  6.90  7.27  1.71 10.08

MAJOR : OFFICE ADM-LEGAL SECRETARIAL    MAJOR CODE : 35      NUMBER :   6      RANK :  16
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 47.50 24.67 18.17 27.17 13.50 19.33    5.01  4.84  4.62  3.25  2.88  7.06

MAJOR : FINE ARTS                       MAJOR CODE : 19      NUMBER :   3      RANK :  17
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 46.67 24.67 16.33 21.33 17.00 18.33    5.03  5.69  1.53  6.43  5.00  7.02

MAJOR : DENTAL HYGIENE                  MAJOR CODE : 13      NUMBER :  12      RANK :  18
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
 48.83 24.50 20.42 22.50 14.67 22.42    5.65 10.43  3.68  8.21  4.98  6.32
```

```
MAJOR : REAL ESTATE                                      MAJOR CODE : 39      NUMBER :   4       RANK :  19
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.50 24.25 16.25 20.25 18.75 23.50     2.52   9.95   3.50   6.02   5.12   7.55

MAJOR : MANAGEMENT                                       MAJOR CODE : 26      NUMBER :  25       RANK :  20
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 41.40 24.00 17.12 19.48 14.16 20.76    10.33   9.37   6.19   9.82   5.72   9.79

MAJOR : BUSINESS (GENERAL)                               MAJOR CODE :  7      NUMBER : 254       RANK :  21
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.52 23.98 19.15 22.67 15.81 20.51     9.66   8.19   6.37   8.78   5.90   8.68

MAJOR : DENTAL ASSISTING                                 MAJOR CODE : 12      NUMBER :  18       RANK :  22
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 45.67 23.39 17.72 19.39 12.44 18.33     8.38   9.46   6.23   7.41   3.97   7.16

MAJOR : PHOTOGRAPHY                                      MAJOR CODE :  9      NUMBER :   9       RANK :  23
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 41.00 23.33 16.78 18.78 15.56 20.11     9.53   9.38   8.53  10.29   4.69   9.73

MAJOR : LANGUAGES & LITERATURE                           MAJOR CODE : 24      NUMBER :  38       RANK :  24
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 41.45 23.16 16.47 18.74 16.16 19.61    14.04   8.99   7.11   9.01   6.17   8.88

MAJOR : INSTRUCTIONAL ASSISTING                          MAJOR CODE : 23      NUMBER :   3       RANK :  25
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.33 23.00 13.33 14.33 12.67 14.33     8.74   4.36   5.03  18.34  13.01  15.63

MAJOR : HUMANITIES                                       MAJOR CODE : 22      NUMBER :   1       RANK :  26
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
  0.00 23.00 26.00 17.00 29.00 29.00     0.00   0.00   0.00   0.00   0.00   0.00

MAJOR : ART                                              MAJOR CODE :  4      NUMBER :  32       RANK :  27
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 41.72 22.97 16.38 17.97 15.16 18.16    11.25  10.19   8.27  10.66   6.70  10.82
```

```
MAJOR : DATA PROCESSING                  MAJOR CODE : 11       NUMBER : 144        RANK :  28
<----------- AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
42.15  22.78  19.38  21.44  16.56  20.99    8.62   8.56   6.26   8.30   6.03   9.15

MAJOR : ADM OF JUSTICE                   MAJOR CODE :  2       NUMBER :  77        RANK :  29
<----------- AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
39.90  22.77  16.44  19.09  16.23  19.83   11.33   8.53   6.96   8.31   5.13   8.18

MAJOR : MUSIC                            MAJOR CODE : 30       NUMBER :  21        RANK :  30
<----------- AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
44.33  22.43  17.52  19.81  16.95  21.67    6.95   8.23   5.58   6.58   5.51   8.49

MAJOR : OTHERS                           MAJOR CODE : 46       NUMBER : 103        RANK :  31
<----------- AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
40.94  22.16  16.72  20.19  14.77  18.94   10.59   9.18   6.39   8.75   5.43   8.47

MAJOR : PHYSICAL EDUCATION               MAJOR CODE : 37       NUMBER :  31        RANK :  32
<----------- AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
40.19  22.16  18.16  22.65  14.61  17.84   11.62   8.45   6.21   8.42   5.61   9.09

MAJOR : DRAFTING TECH                    MAJOR CODE : 14       NUMBER :   8        RANK :  33
<----------- AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
41.75  22.13  20.13  21.00  18.50  28.13   10.99   9.49   7.47   9.53   6.26   3.48

MAJOR : MECHANICAL-ELECT TECH            MAJOR CODE : 27       NUMBER :  24        RANK :  34
<----------- AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
40.83  21.88  20.58  19.58  20.29  22.38    8.26   8.03   6.48   8.83   5.76   7.96

MAJOR : NURSING (LVN)                    MAJOR CODE : 32       NUMBER :  22        RANK :  35
<----------- AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
39.45  21.73  19.14  19.64  15.09  16.73   12.12  10.09   5.72   7.30   4.82   7.73

MAJOR : OFFICE ADM-GENERAL SECRETARIAL   MAJOR CODE : 34       NUMBER :  24        RANK :  36
<----------- AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
42.42  21.67  15.92  20.42  13.54  17.92    9.58   9.60   6.63   9.34   4.85   7.43
```

```
MAJOR : NURSING (ADN)                              MAJOR CODE : 31      NUMBER :  41      RANK :  37
 <----------- AVERAGES ------------->            <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 40.83  21.61  18.17  20.83  13.78  16.88        10.90  10.00   6.63   9.72   5.40   9.39

MAJOR : NOT LISTED                                 MAJOR CODE : 47      NUMBER : 210      RANK :  38
 <----------- AVERAGES ------------->            <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 38.73  20.77  16.73  18.78  15.85  19.57        11.33   8.98   7.17   9.36   5.68   9.12

MAJOR : COSMETOLOGY                                MAJOR CODE : 10      NUMBER :  22      RANK :  39
 <----------- AVERAGES ------------->            <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 38.82  20.68  14.00  20.23  13.50  17.77         9.40   8.17   7.50  10.73   4.51   7.54

MAJOR : EARLY CHILDHOOD ED                         MAJOR CODE : 15      NUMBER :  19      RANK :  40
 <----------- AVERAGES ------------->            <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 40.00  19.89  14.68  18.26  12.26  14.26        11.27   8.48   5.32  10.23   4.98   7.68

MAJOR : OFFICE ADM-CLERICAL                        MAJOR CODE : 33      NUMBER :  14      RANK :  41
 <----------- AVERAGES ------------->            <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 32.79  18.64  12.86  17.93  11.07  12.14        11.27   9.87   6.22  10.10   4.98   9.02

MAJOR : GENERAL TECH                               MAJOR CODE : 21      NUMBER :   4      RANK :  42
 <----------- AVERAGES ------------->            <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 34.75  16.50  13.00  17.75  17.75  22.50        14.41  11.09   8.12  13.15   3.59   7.33

MAJOR : SOCIAL SERVICES ASSISTING                  MAJOR CODE : 42      NUMBER :   4      RANK :  43
 <----------- AVERAGES ------------->            <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 39.25  15.00  15.75  19.50  10.75  19.50         1.89   1.83   4.35   5.45   5.19   4.20

MAJOR : METALS INDUSTRY TECH                       MAJOR CODE : 29      NUMBER :   5      RANK :  44
 <----------- AVERAGES ------------->            <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
 28.80  14.60   6.80  13.00  13.80  14.60        17.11   9.79   6.61  10.37   8.41  12.10

MAJOR : WOMEN'S STUDIES                            MAJOR CODE : 45      NUMBER :   1      RANK :  45
 <----------- AVERAGES ------------->            <------- STANDARD DEVIATION ------>
  (1)   *(2)*   (3)    (4)    (5)    (6)          (1)    (2)    (3)    (4)    (5)    (6)
  0.00   0.00   0.00   0.00   0.00   0.00         0.00   0.00   0.00   0.00   0.00   0.00
```

```
MAJOR : TRANSPORTATION                          MAJOR CODE : 44      NUMBER :   1      RANK :  46
 <----------- AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
  0.00  0.00  0.00  0.00  0.00  0.00    0.00  0.00  0.00  0.00  0.00  0.00

MAJOR : ETHNIC STUDIES                          MAJOR CODE : 17      NUMBER :   1      RANK :  47
 <----------- AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)  *(2)*  (3)   (4)   (5)   (6)     (1)   (2)   (3)   (4)   (5)   (6)
  0.00  0.00  0.00  0.00  0.00  0.00    0.00  0.00  0.00  0.00  0.00  0.00
```

TABLE 15C

ASSET Numerical Scores Sorted in Descending Order - by Major

```
MAJOR : HUMANITIES                                MAJOR CODE : 22      NUMBER :   1      RANK :  1
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
  0.00 23.00 26.00 17.00 29.00 29:00   0.00   0.00   0.00   0.00   0.00   0.00

MAJOR : PRINTING TECH                             MAJOR CODE : 38      NUMBER :  10      RANK :  2
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 45.20 27.40 23.10 24.00 18.90 24.30   8.59   7.24   4.86   8.46   4.84   9.49

MAJOR : ELECTRONICS TECH                          MAJOR CODE : 16      NUMBER :  41      RANK :  3
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.29 24.83 22.37 21.32 20.17 25.05   8.56   9.48   6.32   9.31   5.97   9.25

MAJOR : LIBRARY TECH                              MAJOR CODE : 25      NUMBER :   2      RANK :  4
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.50 25.00 22.00 19.00 22.00 23.00   2.12   1.41   2.83   1.41   7.07   1.41

MAJOR : THEATRE ARTS                              MAJOR CODE : 43      NUMBER :   8      RANK :  5
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 48.50 32.63 21.88 16.88 17.25 20.50   4.44   4.53   3.27   5.14   5.04   9.15

MAJOR : ACCOUNTING                                MAJOR CODE :  1      NUMBER :  55      RANK :  6
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.53 25.09 21.53 24.49 15.45 21.45   7.49   7.91   5.75   8.12   5.51   8.32

MAJOR : AVIATION MAINTENANCE TECH                 MAJOR CODE :  5      NUMBER :  26      RANK :  7
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.27 27.54 21.19 20.77 22.58 27.58   9.82   9.16   6.14   5.81   5.04   5.00

MAJOR : SCIENCE MATH & ENGINEERING                MAJOR CODE : 40      NUMBER : 157      RANK :  8
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.24 25.89 20.73 21.88 18.18 22.55   9.42   7.82   6.02   8.23   5.83   9.36

MAJOR : MECHANICAL-ELECT TECH                     MAJOR CODE : 27      NUMBER :  24      RANK :  9
 <------------ AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 40.83 21.88 20.58 19.58 20.29 22.38   8.26   8.03   6.48   8.83   5.76   7.96
```

```
MAJOR : DENTAL HYGIENE                        MAJOR CODE : 13     NUMBER :  12      RANK :  10
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 48.83 24.50 20.42 22.50 14.67 22.42   5.65 10.43  3.68  8.21  4.98  6.32

MAJOR : DRAFTING TECH                         MAJOR CODE : 14     NUMBER :   8      RANK :  11
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 41.75 22.13 20.13 21.00 18.50 28.13  10.99  9.49  7.47  9.53  6.26  3.48

MAJOR : MERCHANDISING                         MAJOR CODE : 28     NUMBER :   8      RANK :  12
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.25 28.38 20.00 23.75 15.63 26.88   7.65  7.48  7.29  8.26  4.96  3.72

MAJOR : BOOKKEEPING & OFFICE MANAGEMENT MAJOR CODE :  6     NUMBER :   5      RANK :  13
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 39.60 27.20 19.80 23.80 14.00 20.40  12.40  7.79  2.68 10.71  5.39  5.94

MAJOR : DATA PROCESSING                       MAJOR CODE : 11     NUMBER : 144      RANK :  14
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.15 22.78 19.38 21.44 16.56 20.99   8.62  8.56  6.26  8.30  6.03  9.15

MAJOR : BUSINESS (GENERAL)                    MAJOR CODE :  7     NUMBER : 254      RANK :  15
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.52 23.98 19.15 22.67 15.81 20.51   9.66  8.19  6.37  8.78  5.90  8.68

MAJOR : NURSING (LVN)                         MAJOR CODE : 32     NUMBER :  22      RANK :  16
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 39.45 21.73 19.14 19.64 15.09 16.73  12.12 10.09  5.72  7.30  4.82  7.73

MAJOR : GENERAL STUDIES                       MAJOR CODE : 20     NUMBER :  33      RANK :  17
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 43.33 25.79 18.45 22.79 16.48 20.64  10.24  9.05  5.82  9.63  5.25  9.64

MAJOR : OFFICE ADM-LEGAL SECRETARIAL          MAJOR CODE : 35     NUMBER :   6      RANK :  18
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 47.50 24.67 18.17 27.17 13.50 19.33   5.01  4.84  4.62  3.25  2.88  7.06
```

```
MAJOR : NURSING (ADN)                      MAJOR CODE : 31      NUMBER :  41      RANK :  19
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 40.83 21.61 18.17 20.83 13.78 16.88    10.90 10.00   6.63   9.72   5.40   9.39

MAJOR : PHYSICAL EDUCATION                 MAJOR CODE : 37      NUMBER :  31      RANK :  20
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 40.19 22.16 18.16 22.65 14.61 17.84    11.62   8.45   6.21   8.42   5.61   9.09

MAJOR : COMMUNICATION (GENERAL)            MAJOR CODE :  8      NUMBER :  26      RANK :  21
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 49.08 25.08 18.12 23.92 14.85 17.77     6.47   7.66   5.77   7.21   4.67   7.78

MAJOR : DENTAL ASSISTING                   MAJOR CODE : 12      NUMBER :  18      RANK :  22
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 45.67 23.39 17.72 19.39 12.44 18.33     8.38   9.46   6.23   7.41   3.97   7.16

MAJOR : SOCIAL SCIENCE                     MAJOR CODE : 41      NUMBER :  72      RANK :  23
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.00 25.43 17.64 20.36 14.83 19.78     9.23   7.94   7.45   8.76   5.49   8.77

MAJOR : MUSIC                              MAJOR CODE : 30      NUMBER :  21      RANK :  24
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.33 22.43 17.52 19.81 16.95 21.67     6.95   8.23   5.58   6.58   5.51   8.49

MAJOR : MANAGEMENT                         MAJOR CODE : 26      NUMBER :  25      RANK :  25
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 41.40 24.00 17.12 19.48 14.16 20.76    10.33   9.37   6.19   9.82   5.72   9.79

MAJOR : PHOTOGRAPHY                        MAJOR CODE :  9      NUMBER :   9      RANK :  26
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 41.00 23.33 16.78 18.78 15.56 20.11     9.53   9.38   8.53  10.29   4.69   9.73

MAJOR : FAMILY & CONSUMER SCI              MAJOR CODE : 18      NUMBER :   4      RANK :  27
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*  (4)    (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 43.75 24.75 16.75 18.25 13.75 20.50    10.21   8.06   6.90   7.27   1.71  10.08
```

```
MAJOR : NOT LISTED                        MAJOR CODE : 47     NUMBER : 210     RANK :  28
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)   *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 38.73 20.77 16.73 18.78 15.85 19.57   11.33   8.98   7.17   9.36   5.68   9.12

MAJOR : OTHERS                            MAJOR CODE : 46     NUMBER : 103     RANK :  29
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)   *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 40.94 22.16 16.72 20.19 14.77 18.94   10.59   9.18   6.39   8.75   5.43   8.47

MAJOR : LANGUAGES & LITERATURE            MAJOR CODE : 24     NUMBER :  38     RANK :  30
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)   *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 41.45 23.16 16.47 18.74 16.16 19.61   14.04   8.99   7.11   9.01   6.17   8.88

MAJOR : ADM OF JUSTICE                    MAJOR CODE :  2     NUMBER :  77     RANK :  31
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)   *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 39.90 22.77 16.44 19.09 16.23 19.83   11.33   8.53   6.96   8.31   5.13   8.18

MAJOR : ART                               MAJOR CODE :  4     NUMBER :  32     RANK :  32
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)   *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 41.72 22.97 16.38 17.97 15.16 18.16   11.25  10.19   8.27  10.66   6.70  10.82

MAJOR : FINE ARTS                         MAJOR CODE : 19     NUMBER :   3     RANK :  33
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)   *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 46.67 24.67 16.33 21.33 17.00 18.33    5.03   5.69   1.53   6.43   5.00   7.02

MAJOR : REAL ESTATE                       MAJOR CODE : 39     NUMBER :   4     RANK :  34
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)   *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.50 24.25 16.25 20.25 18.75 23.50    2.52   9.95   3.50   6.02   5.12   7.55

MAJOR : OFFICE ADM-GENERAL SECRETARIAL  MAJOR CODE : 34     NUMBER :  24     RANK :  35
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)   *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.42 21.67 15.92 20.42 13.54 17.92    9.58   9.60   6.63   9.34   4.85   7.43

MAJOR : SOCIAL SERVICES ASSISTING         MAJOR CODE : 42     NUMBER :   4     RANK :  36
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)   *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 39.25 15.00 15.75 19.50 10.75 19.50    1.89   1.83   4.35   5.45   5.19   4.20
```

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MAJOR : ADVERTISING                          MAJOR CODE :  3     NUMBER :   2     RANK :  37
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.00 29.50 15.50 33.50 18.00 20.00    1.41   0.71   3.54   0.71   8.49   5.66

MAJOR : EARLY CHILDHOOD ED                   MAJOR CODE : 15     NUMBER :  19     RANK :  38
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 40.00 19.89 14.68 18.26 12.26 14.26   11.27   8.48   5.32  10.23   4.98   7.68

MAJOR : COSMETOLOGY                          MAJOR CODE : 10     NUMBER :  22     RANK :  39
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 38.82 20.68 14.00 20.23 13.50 17.77    9.40   8.17   7.50  10.73   4.51   7.54

MAJOR : OFFICE ADM-MEDICAL SECRETARIAL       MAJOR CODE : 36     NUMBER :   3     RANK :  40
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.00 27.00 13.33 22.67 13.00 16.33    8.89   9.54   6.66   3.21   2.65   3.21

MAJOR : INSTRUCTIONAL ASSISTING              MAJOR CODE : 23     NUMBER :   3     RANK :  41
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.33 23.00 13.33 14.33 12.67 14.33    8.74   4.36   5.03  18.34  13.01  15.63

MAJOR : GENERAL TECH                         MAJOR CODE : 21     NUMBER :   4     RANK :  42
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 34.75 16.50 13.00 17.75 17.75 22.50   14.41  11.09   8.12  13.15   3.59   7.33

MAJOR : OFFICE ADM-CLERICAL                  MAJOR CODE : 33     NUMBER :  14     RANK :  43
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 32.79 18.64 12.86 17.93 11.07 12.14   11.27   9.87   6.22  10.10   4.98   9.02

MAJOR : METALS INDUSTRY TECH                 MAJOR CODE : 29     NUMBER :   5     RANK :  44
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 28.80 14.60  6.80 13.00 13.80 14.60   17.11   9.79   6.61  10.37   8.41  12.10

MAJOR : WOMEN'S STUDIES                      MAJOR CODE : 45     NUMBER :   1     RANK :  45
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)  *(3)*   (4)    (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
  0.00  0.00  0.00  0.00  0.00  0.00    0.00   0.00   0.00   0.00   0.00   0.00
```

```
MAJOR : TRANSPORTATION                          MAJOR CODE : 44      NUMBER :    1       RANK :  46
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
   (1)     (2)   *(3)*   (4)     (5)     (6)     (1)     (2)     (3)     (4)     (5)     (6)
  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00

MAJOR : ETHNIC STUDIES                          MAJOR CODE : 17      NUMBER :    1       RANK :  47
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
   (1)     (2)   *(3)*   (4)     (5)     (6)     (1)     (2)     (3)     (4)     (5)     (6)
  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
```

TABLE 15D

ASSET Clerical Speed/Accuracy Scores Sorted in Descending Order - by Major

```
MAJOR : ADVERTISING                          MAJOR CODE :  3      NUMBER :   2      RANK :  1
 <------------ AVERAGES ------------->     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.00  29.50  15.50  33.50  18.00  20.00    1.41   0.71   3.54   0.71   8.49   5.66


MAJOR : OFFICE ADM-LEGAL SECRETARIAL         MAJOR CODE : 35      NUMBER :   6      RANK :  2
 <------------ AVERAGES ------------->     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 47.50  24.67  18.17  27.17  13.50  19.33    5.01   4.84   4.62   3.25   2.88   7.06


MAJOR : ACCOUNTING                           MAJOR CODE :  1      NUMBER :  55      RANK :  3
 <------------ AVERAGES ------------->     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.53  25.09  21.53  24.49  15.45  21.45    7.49   7.91   5.75   8.12   5.51   8.32


MAJOR : PRINTING TECH                        MAJOR CODE : 38      NUMBER :  10      RANK :  4
 <------------ AVERAGES ------------->     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 45.20  27.40  23.10  24.00  18.90  24.30    8.59   7.24   4.86   8.46   4.84   9.49


MAJOR : COMMUNICATION (GENERAL)              MAJOR CODE :  8      NUMBER :  26      RANK :  5
 <------------ AVERAGES ------------->     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 49.08  25.08  18.12  23.92  14.85  17.77    6.47   7.66   5.77   7.21   4.67   7.78


MAJOR : BOOKKEEPING & OFFICE MANAGEMENT MAJOR CODE :  6      NUMBER :   5      RANK :  6
 <------------ AVERAGES ------------->     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 39.60  27.20  19.80  23.80  14.00  20.40   12.40   7.79   2.68  10.71   5.39   5.94


MAJOR : MERCHANDISING                        MAJOR CODE : 28      NUMBER :   8      RANK :  7
 <------------ AVERAGES ------------->     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.25  28.38  20.00  23.75  15.63  26.88    7.65   7.48   7.29   8.26   4.96   3.72


MAJOR : GENERAL STUDIES                      MAJOR CODE : 20      NUMBER :  33      RANK :  8
 <------------ AVERAGES ------------->     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 43.33  25.79  18.45  22.79  16.48  20.64   10.24   9.05   5.82   9.63   5.25   9.64


MAJOR : BUSINESS (GENERAL)                   MAJOR CODE :  7      NUMBER : 254      RANK :  9
 <------------ AVERAGES ------------->     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 42.52  23.98  19.15  22.67  15.81  20.51    9.66   8.19   6.37   8.78   5.90   8.68
```

```
MAJOR : OFFICE ADM-MEDICAL SECRETARIAL  MAJOR CODE : 36     NUMBER :   3      RANK :  10
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 42.00 27.00 13.33 22.67 13.00 16.33   8.89  9.54  6.66  3.21  2.65  3.21


MAJOR : PHYSICAL EDUCATION              MAJOR CODE : 37     NUMBER :  31      RANK :  11
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 40.19 22.16 18.16 22.65 14.61 17.84  11.62  8.45  6.21  8.42  5.61  9.09


MAJOR : DENTAL HYGIENE                  MAJOR CODE : 13     NUMBER :  12      RANK :  12
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 48.83 24.50 20.42 22.50 14.67 22.42   5.65 10.43  3.68  8.21  4.98  6.32


MAJOR : SCIENCE MATH & ENGINEERING      MAJOR CODE : 40     NUMBER : 157      RANK :  13
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.24 25.89 20.73 21.88 18.18 22.55   9.42  7.82  6.02  8.23  5.83  9.36


MAJOR : DATA PROCESSING                 MAJOR CODE : 11     NUMBER : 144      RANK :  14
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 42.15 22.78 19.38 21.44 16.56 20.99   8.62  8.56  6.26  8.30  6.03  9.15


MAJOR : FINE ARTS                       MAJOR CODE : 19     NUMBER :   3      RANK :  15
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 46.67 24.67 16.33 21.33 17.00 18.33   5.03  5.69  1.53  6.43  5.00  7.02


MAJOR : ELECTRONICS TECH                MAJOR CODE : 16     NUMBER :  41      RANK :  16
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.29 24.83 22.37 21.32 20.17 25.05   8.56  9.48  6.32  9.31  5.97  9.25


MAJOR : DRAFTING TECH                   MAJOR CODE : 14     NUMBER :   8      RANK :  17
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 41.75 22.13 20.13 21.00 18.50 28.13  10.99  9.49  7.47  9.53  6.26  3.48


MAJOR : NURSING (ADN)                   MAJOR CODE : 31     NUMBER :  41      RANK :  18
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 40.83 21.61 18.17 20.83 13.78 16.88  10.90 10.00  6.63  9.72  5.40  9.39
```

```
MAJOR : AVIATION MAINTENANCE TECH        MAJOR CODE :  5      NUMBER :  26      RANK :  19
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 42.27  27.54  21.19  20.77  22.58  27.58    9.82   9.16   6.14   5.81   5.04   5.00

MAJOR : OFFICE ADM-GENERAL SECRETARIAL   MAJOR CODE : 34      NUMBER :  24      RANK :  20
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 42.42  21.67  15.92  20.42  13.54  17.92    9.58   9.60   6.63   9.34   4.85   7.43

MAJOR : SOCIAL SCIENCE                   MAJOR CODE : 41      NUMBER :  72      RANK :  21
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.00  25.43  17.64  20.36  14.83  19.78    9.23   7.94   7.45   8.76   5.49   8.77

MAJOR : REAL ESTATE                      MAJOR CODE : 39      NUMBER :   4      RANK :  22
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 42.50  24.25  16.25  20.25  18.75  23.50    2.52   9.95   3.50   6.02   5.12   7.55

MAJOR : COSMETOLOGY                      MAJOR CODE : 10      NUMBER :  22      RANK :  23
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 38.82  20.68  14.00  20.23  13.50  17.77    9.40   8.17   7.50  10.73   4.51   7.54

MAJOR : OTHERS                           MAJOR CODE : 46      NUMBER : 103      RANK :  24
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 40.94  22.16  16.72  20.19  14.77  18.94   10.59   9.18   6.39   8.75   5.43   8.47

MAJOR : MUSIC                            MAJOR CODE : 30      NUMBER :  21      RANK :  25
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.33  22.43  17.52  19.81  16.95  21.67    6.95   8.23   5.58   6.58   5.51   8.49

MAJOR : NURSING (LVN)                    MAJOR CODE : 32      NUMBER :  22      RANK :  26
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 39.45  21.73  19.14  19.64  15.09  16.73   12.12  10.09   5.72   7.30   4.82   7.73

MAJOR : MECHANICAL-ELECT TECH            MAJOR CODE : 27      NUMBER :  24      RANK :  27
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)   *(4)*   (5)    (6)     (1)    (2)    (3)    (4)    (5)    (6)
 40.83  21.88  20.58  19.58  20.29  22.38    8.26   8.03   6.48   8.83   5.76   7.96
```

```
AJOR : SOCIAL SERVICES ASSISTING              MAJOR CODE : 42       NUMBER :   4       RANK :  28
<------------ AVERAGES ------------->        <------- STANDARD DEVIATION ------>
 (1)    (2)    (3)   *(4)*   (5)    (6)       (1)    (2)    (3)    (4)    (5)    (6)
39.25 15.00 15.75 19.50 10.75 19.50           1.89   1.83   4.35   5.45   5.19   4.20

AJOR : MANAGEMENT                             MAJOR CODE : 26       NUMBER :  25       RANK :  29
<------------ AVERAGES ------------->        <------- STANDARD DEVIATION ------>
 (1)    (2)    (3)   *(4)*   (5)    (6)       (1)    (2)    (3)    (4)    (5)    (6)
41.40 24.00 17.12 19.48 14.16 20.76          10.33   9.37   6.19   9.82   5.72   9.79

AJOR : DENTAL ASSISTING                       MAJOR CODE : 12       NUMBER :  18       RANK :  30
<------------ AVERAGES ------------->        <------- STANDARD DEVIATION ------>
 (1)    (2)    (3)   *(4)*   (5)    (6)       (1)    (2)    (3)    (4)    (5)    (6)
45.67 23.39 17.72 19.39 12.44 18.33           8.38   9.46   6.23   7.41   3.97   7.16

AJOR : ADM OF JUSTICE                         MAJOR CODE :  2       NUMBER :  77       RANK :  31
<------------ AVERAGES ------------->        <------- STANDARD DEVIATION ------>
 (1)    (2)    (3)   *(4)*   (5)    (6)       (1)    (2)    (3)    (4)    (5)    (6)
39.90 22.77 16.44 19.09 16.23 19.83          11.33   8.53   6.96   8.31   5.13   8.18

AJOR : LIBRARY TECH                           MAJOR CODE : 25       NUMBER :   2       RANK :  32
<------------ AVERAGES ------------->        <------- STANDARD DEVIATION ------>
 (1)    (2)    (3)   *(4)*   (5)    (6)       (1)    (2)    (3)    (4)    (5)    (6)
44.50 25.00 22.00 19.00 22.00 23.00           2.12   1.41   2.83   1.41   7.07   1.41

AJOR : PHOTOGRAPHY                            MAJOR CODE :  9       NUMBER :   9       RANK :  33
<------------ AVERAGES ------------->        <------- STANDARD DEVIATION ------>
 (1)    (2)    (3)   *(4)*   (5)    (6)       (1)    (2)    (3)    (4)    (5)    (6)
41.00 23.33 16.78 18.78 15.56 20.11           9.53   9.38   8.53  10.29   4.69   9.73

AJOR : NOT LISTED                             MAJOR CODE : 47       NUMBER : 210       RANK :  34
<------------ AVERAGES ------------->        <------- STANDARD DEVIATION ------>
 (1)    (2)    (3)   *(4)*   (5)    (6)       (1)    (2)    (3)    (4)    (5)    (6)
38.73 20.77 16.73 18.78 15.85 19.57          11.33   8.98   7.17   9.36   5.68   9.12

AJOR : LANGUAGES & LITERATURE                 MAJOR CODE : 24       NUMBER :  38       RANK :  35
<------------ AVERAGES ------------->        <------- STANDARD DEVIATION ------>
 (1)    (2)    (3)   *(4)*   (5)    (6)       (1)    (2)    (3)    (4)    (5)    (6)
41.45 23.16 16.47 18.74 16.16 19.61          14.04   8.99   7.11   9.01   6.17   8.88

AJOR : EARLY CHILDHOOD ED                     MAJOR CODE : 15       NUMBER :  19       RANK :  36
<------------ AVERAGES ------------->        <------- STANDARD DEVIATION ------>
 (1)    (2)    (3)   *(4)*   (5)    (6)       (1)    (2)    (3)    (4)    (5)    (6)
0.00 19.89 14.68 18.26 12.26 14.26           11.27   8.48   5.32  10.23   4.98   7.68
```

```
MAJOR : FAMILY & CONSUMER SCI           MAJOR CODE : 18     NUMBER :   4     RANK :  37
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)  *(4)*  (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 43.75 24.75 16.75 18.25 13.75 20.50  10.21  8.06  6.90  7.27  1.71 10.08


MAJOR : ART                             MAJOR CODE :  4     NUMBER :  32     RANK :  38
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)  *(4)*  (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 41.72 22.97 16.38 17.97 15.16 18.16  11.25 10.19  8.27 10.66  6.70 10.82


MAJOR : OFFICE ADM-CLERICAL             MAJOR CODE : 33     NUMBER :  14     RANK :  39
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)  *(4)*  (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 32.79 18.64 12.86 17.93 11.07 12.14  11.27  9.87  6.22 10.10  4.98  9.02


MAJOR : GENERAL TECH                    MAJOR CODE : 21     NUMBER :   4     RANK :  40
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)  *(4)*  (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 34.75 16.50 13.00 17.75 17.75 22.50  14.41 11.09  8.12 13.15  3.59  7.33


MAJOR : HUMANITIES                      MAJOR CODE : 22     NUMBER :   1     RANK :  41
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)  *(4)*  (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
  0.00 23.00 26.00 17.00 29.00 29.00   0.00  0.00  0.00  0.00  0.00  0.00


MAJOR : THEATRE ARTS                    MAJOR CODE : 43     NUMBER :   8     RANK :  42
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)  *(4)*  (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 48.50 32.63 21.88 16.88 17.25 20.50   4.44  4.53  3.27  5.14  5.04  9.15


MAJOR : INSTRUCTIONAL ASSISTING         MAJOR CODE : 23     NUMBER :   3     RANK :  43
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)  *(4)*  (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.33 23.00 13.33 14.33 12.67 14.33   8.74  4.36  5.03 18.34 13.01 15.63


MAJOR : METALS INDUSTRY TECH            MAJOR CODE : 29     NUMBER :   5     RANK :  44
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)  *(4)*  (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
 28.80 14.60  6.80 13.00 13.80 14.60  17.11  9.79  6.61 10.37  8.41 12.10


MAJOR : WOMEN'S STUDIES                 MAJOR CODE : 45     NUMBER :   1     RANK :  45
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)  *(4)*  (5)    (6)    (1)    (2)    (3)    (4)    (5)    (6)
  0.00  0.00  0.00  0.00  0.00  0.00   0.00  0.00  0.00  0.00  0.00  0.00
```

```
MAJOR : TRANSPORTATION                              MAJOR CODE : 44     NUMBER :   1      RANK :  46
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)     (2)     (3)   *(4)*    (5)     (6)     (1)     (2)     (3)     (4)     (5)     (6)
 0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00

MAJOR : ETHNIC STUDIES                              MAJOR CODE : 17     NUMBER :   1      RANK :  47
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)     (2)     (3)   *(4)*    (5)     (6)     (1)     (2)     (3)     (4)     (5)     (6)
 0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
```

TABLE 15E

ASSET Mechanical Reasoning Scores Sorted in Descending Order - by Major

```
MAJOR : HUMANITIES                            MAJOR CODE : 22      NUMBER :   1      RANK :  1
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
  0.00  23.00  26.00  17.00  29.00  29.00    0.00   0.00   0.00   0.00   0.00   0.00

MAJOR : AVIATION MAINTENANCE TECH             MAJOR CODE : 5       NUMBER :  26      RANK :  2
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 42.27  27.54  21.19  20.77  22.58  27.58    9.82   9.16   6.14   5.81   5.04   5.00

MAJOR : LIBRARY TECH                          MAJOR CODE : 25      NUMBER :   2      RANK :  3
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.50  25.00  22.00  19.00  22.00  23.00    2.12   1.41   2.83   1.41   7.07   1.41

MAJOR : MECHANICAL-ELECT TECH                 MAJOR CODE : 27      NUMBER :  24      RANK :  4
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 40.83  21.88  20.58  19.58  20.29  22.38    8.26   8.03   6.48   8.83   5.76   7.96

MAJOR : ELECTRONICS TECH                      MAJOR CODE : 16      NUMBER :  41      RANK :  5
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.29  24.83  22.37  21.32  20.17  25.05    8.56   9.48   6.32   9.31   5.97   9.25

MAJOR : PRINTING TECH                         MAJOR CODE : 38      NUMBER :  10      RANK :  6
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 45.20  27.40  23.10  24.00  18.90  24.30    8.59   7.24   4.86   8.46   4.84   9.49

MAJOR : REAL ESTATE                           MAJOR CODE : 39      NUMBER :   4      RANK :  7
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 42.50  24.25  16.25  20.25  18.75  23.50    2.52   9.95   3.50   6.02   5.12   7.55

MAJOR : DRAFTING TECH                         MAJOR CODE : 14      NUMBER :   8      RANK :  8
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 41.75  22.13  20.13  21.00  18.50  28.13   10.99   9.49   7.47   9.53   6.26   3.48

MAJOR : SCIENCE MATH & ENGINEERING            MAJOR CODE : 40      NUMBER : 157      RANK :  9
 <----------- AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.24  25.89  20.73  21.88  18.18  22.55    9.42   7.82   6.02   8.23   5.83   9.36
```

```
MAJOR : ADVERTISING                              MAJOR CODE :  3      NUMBER :   2      RANK :  10
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.00  29.50  15.50  33.50  18.00  20.00    1.41   0.71   3.54   0.71   8.49   5.66


MAJOR : GENERAL TECH                             MAJOR CODE : 21      NUMBER :   4      RANK :  11
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 34.75  16.50  13.00  17.75  17.75  22.50   14.41  11.09   8.12  13.15   3.59   7.33


MAJOR : THEATRE ARTS                             MAJOR CODE : 43      NUMBER :   8      RANK :  12
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 48.50  32.63  21.88  16.88  17.25  20.50    4.44   4.53   3.27   5.14   5.04   9.15


MAJOR : FINE ARTS                                MAJOR CODE : 19      NUMBER :   3      RANK :  13
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 46.67  24.67  16.33  21.33  17.00  18.33    5.03   5.69   1.53   6.43   5.00   7.02


MAJOR : MUSIC                                    MAJOR CODE : 30      NUMBER :  21      RANK :  14
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 44.33  22.43  17.52  19.81  16.95  21.67    6.95   8.23   5.58   6.58   5.51   8.49


MAJOR : DATA PROCESSING                          MAJOR CODE : 11      NUMBER : 144      RANK :  15
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 42.15  22.78  19.38  21.44  16.56  20.99    8.62   8.56   6.26   8.30   6.03   9.15


MAJOR : GENERAL STUDIES                          MAJOR CODE : 20      NUMBER :  33      RANK :  16
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 43.33  25.79  18.45  22.79  16.48  20.64   10.24   9.05   5.82   9.63   5.25   9.64


MAJOR : ADM OF JUSTICE                           MAJOR CODE :  2      NUMBER :  77      RANK :  17
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 39.90  22.77  16.44  19.09  16.23  19.83   11.33   8.53   6.96   8.31   5.13   8.18
```

281

282

```
MAJOR : LANGUAGES & LITERATURE                   MAJOR CODE : 24      NUMBER :  38      RANK :  18
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 41.45  23.16  16.47  18.74  16.16  19.61   14.04   8.99   7.11   9.01   6.17   8.88
```

```
MAJOR : NOT LISTED                              MAJOR CODE : 47      NUMBER : 210      RANK :  19
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)      (1)    (2)    (3)    (4)    (5)    (6)
 38.73  20.77  16.73  18.78  15.85  19.57    11.33   8.98   7.17   9.36   5.68   9.12

MAJOR : BUSINESS (GENERAL)                      MAJOR CODE :  7      NUMBER : 254      RANK :  20
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)      (1)    (2)    (3)    (4)    (5)    (6)
 42.52  23.98  19.15  22.67  15.81  20.51     9.66   8.19   6.37   8.78   5.90   8.68

MAJOR : MERCHANDISING                           MAJOR CODE : 28      NUMBER :   8      RANK :  21
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)      (1)    (2)    (3)    (4)    (5)    (6)
 44.25  28.38  20.00  23.75  15.63  26.88     7.65   7.48   7.29   8.26   4.96   3.72

MAJOR : PHOTOGRAPHY                             MAJOR CODE :  9      NUMBER :   9      RANK : . 22
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)      (1)    (2)    (3)    (4)    (5)    (6)
 41.00  23.33  16.78  18.78  15.56  20.11     9.53   9.38   8.53  10.29   4.69   9.73

MAJOR : ACCOUNTING                              MAJOR CODE :  1      NUMBER :  55      RANK :  23
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)      (1)    (2)    (3)    (4)    (5)    (6)
 44.53  25.09  21.53  24.49  15.45  21.45     7.49   7.91   5.75   8.12   5.51   8.32

MAJOR : ART                                     MAJOR CODE :  4      NUMBER :  32      RANK :  24
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)      (1)    (2)    (3)    (4)    (5)    (6)
 41.72  22.97  16.38  17.97  15.16  18.16    11.25  10.19   8.27  10.66   6.70  10.82

MAJOR : NURSING (LVN)                           MAJOR CODE : 32      NUMBER :  22      RANK :  25
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)      (1)    (2)    (3)    (4)    (5)    (6)
 39.45  21.73  19.14  19.64  15.09  16.73    12.12  10.09   5.72   7.30   4.82   7.73

MAJOR : COMMUNICATION (GENERAL)                 MAJOR CODE :  8      NUMBER :  26      RANK :  26
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)      (1)    (2)    (3)    (4)    (5)    (6)
 49.08  25.08  18.12  23.92  14.85  17.77     6.47   7.66   5.77   7.21   4.67   7.78

MAJOR : SOCIAL SCIENCE                          MAJOR CODE : 41      NUMBER :  72      RANK :  27
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)      (1)    (2)    (3)    (4)    (5)    (6)
 44.00  25.43  17.64  20.36  14.83  19.78     9.23   7.94   7.45   8.76   5.49   8.77
```

```
MAJOR : OTHERS                             MAJOR CODE : 46      NUMBER : 103      RANK :  28
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 40.94  22.16  16.72  20.19  14.77  18.94   10.59   9.18   6.39   8.75   5.43   8.47

MAJOR : DENTAL HYGIENE                     MAJOR CODE : 13      NUMBER :  12      RANK :  29
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 48.83  24.50  20.42  22.50  14.67  22.42    5.65  10.43   3.68   8.21   4.98   6.32

MAJOR : PHYSICAL EDUCATION                 MAJOR CODE : 37      NUMBER :  31      RANK :  30
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 40.19  22.16  18.16  22.65  14.61  17.84   11.62   8.45   6.21   8.42   5.61   9.09

MAJOR : MANAGEMENT                         MAJOR CODE : 26      NUMBER :  25      RANK :  31
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 41.40  24.00  17.12  19.48  14.16  20.76   10.33   9.37   6.19   9.82   5.72   9.79

MAJOR : BOOKKEEPING & OFFICE MANAGEMENT MAJOR CODE :  6      NUMBER :   5      RANK :  32
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 39.60  27.20  19.80  23.80  14.00  20.40   12.40   7.79   2.68  10.71   5.39   5.94

MAJOR : METALS INDUSTRY TECH               MAJOR CODE : 29      NUMBER :   5      RANK :  33
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 28.80  14.60   6.80  13.00  13.80  14.60   17.11   9.79   6.61  10.37   8.41  12.10

MAJOR : NURSING (ADN)                      MAJOR CODE : 31      NUMBER :  41      RANK :  34
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 40.83  21.61  18.17  20.83  13.78  16.88   10.90  10.00   6.63   9.72   5.40   9.39

MAJOR : FAMILY & CONSUMER SCI              MAJOR CODE : 18      NUMBER :   4      RANK :  35
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 43.75  24.75  16.75  18.25  13.75  20.50   10.21   8.06   6.90   7.27   1.71  10.08
```

```
MAJOR : OFFICE ADM-GENERAL SECRETARIAL  MAJOR CODE : 34      NUMBER :  24      RANK :  36
 <----------- AVERAGES ------------>     <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 42.42  21.67  15.92  20.42  13.54  17.92    9.58   9.60   6.63   9.34   4.85   7.43
```

```
MAJOR : OFFICE ADM-LEGAL SECRETARIAL    MAJOR CODE : 35    NUMBER :  6      RANK :  37
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*  (6)    (1)    (2)    (3)    (4)    (5)    (6)
 47.50 24.67 18.17 27.17 13.50 19.33    5.01   4.84   4.62   3.25   2.88   7.06

MAJOR : COSMETOLOGY                     MAJOR CODE : 10    NUMBER : 22      RANK :  38
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*  (6)    (1)    (2)    (3)    (4)    (5)    (6)
 38.82 20.68 14.00 20.23 13.50 17.77    9.40   8.17   7.50  10.73   4.51   7.54

MAJOR : OFFICE ADM-MEDICAL SECRETARIAL  MAJOR CODE : 36    NUMBER :  3      RANK :  39
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*  (6)    (1)    (2)    (3)    (4)    (5)    (6)
 42.00 27.00 13.33 22.67 13.00 16.33    8.89   9.54   6.66   3.21   2.65   3.21

MAJOR : INSTRUCTIONAL ASSISTING         MAJOR CODE : 23    NUMBER :  3      RANK :  40
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*  (6)    (1)    (2)    (3)    (4)    (5)    (6)
 44.33 23.00 13.33 14.33 12.67 14.33    8.74   4.36   5.03  18.34  13.01  15.63

MAJOR : DENTAL ASSISTING                MAJOR CODE : 12    NUMBER : 18      RANK :  41
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*  (6)    (1)    (2)    (3)    (4)    (5)    (6)
 45.67 23.39 17.72 19.39 12.44 18.33    8.38   9.46   6.23   7.41   3.97   7.16

MAJOR : EARLY CHILDHOOD ED              MAJOR CODE : 15    NUMBER : 19      RANK :  42
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*  (6)    (1)    (2)    (3)    (4)    (5)    (6)
 40.00 19.89 14.68 18.26 12.26 14.26   11.27   8.48   5.32  10.23   4.98   7.68

MAJOR : OFFICE ADM-CLERICAL             MAJOR CODE : 33    NUMBER : 14      RANK :  43
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*  (6)    (1)    (2)    (3)    (4)    (5)    (6)
 32.79 18.64 12.86 17.93 11.07 12.14   11.27   9.87   6.22  10.10   4.98   9.02

MAJOR : SOCIAL SERVICES ASSISTING       MAJOR CODE : 42    NUMBER :  4      RANK :  44
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*  (6)    (1)    (2)    (3)    (4)    (5)    (6)
 39.25 15.00 15.75 19.50 10.75 19.50    1.89   1.83   4.35   5.45   5.19   4.20

MAJOR : WOMEN'S STUDIES                 MAJOR CODE : 45    NUMBER :  1      RANK :  45
 <----------- AVERAGES ------------>   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*  (6)    (1)    (2)    (3)    (4)    (5)    (6)
  0.00  0.00  0.00  0.00  0.00  0.00    0.00   0.00   0.00   0.00   0.00   0.00
```

```
MAJOR : TRANSPORTATION                            MAJOR CODE : 44      NUMBER :    1       RANK :  46
 <----------- AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 0.00   0.00   0.00   0.00   0.00   0.00    0.00   0.00   0.00   0.00   0.00   0.00

MAJOR : ETHNIC STUDIES                            MAJOR CODE : 17      NUMBER :    1       RANK :  47
 <----------- AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)   *(5)*   (6)     (1)    (2)    (3)    (4)    (5)    (6)
 0.00   0.00   0.00   0.00   0.00   0.00    0.00   0.00   0.00   0.00   0.00   0.00
```

TABLE 15F

ASSET Space Relations Scores Sorted in Descending Order - by Major

```
MAJOR : HUMANITIES                               MAJOR CODE : 22      NUMBER :   1       RANK :  1
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
  0.00  23.00  26.00  17.00  29.00  29.00    0.00   0.00   0.00   0.00   0.00   0.00


MAJOR : DRAFTING TECH                            MAJOR CODE : 14      NUMBER :   8       RANK :  2
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 41.75  22.13  20.13  21.00  18.50  28.13   10.99   9.49   7.47   9.53   6.26   3.48


MAJOR : AVIATION MAINTENANCE TECH                MAJOR CODE :  5      NUMBER :  26       RANK :  3
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 42.27  27.54  21.19  20.77  22.58  27.58    9.82   9.16   6.14   5.81   5.04   5.00


MAJOR : MERCHANDISING                            MAJOR CODE : 28      NUMBER :   8       RANK :  4
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 44.25  28.38  20.00  23.75  15.63  26.88    7.65   7.48   7.29   8.26   4.96   3.72


MAJOR : ELECTRONICS TECH                         MAJOR CODE : 16      NUMBER :  41       RANK :  5
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 44.29  24.83  22.37  21.32  20.17  25.05    8.56   9.48   6.32   9.31   5.97   9.25


MAJOR : PRINTING TECH                            MAJOR CODE : 38      NUMBER :  10       RANK :  6
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 45.20  27.40  23.10  24.00  18.90  24.30    8.59   7.24   4.86   8.46   4.84   9.49


MAJOR : REAL ESTATE                              MAJOR CODE : 39      NUMBER :   4       RANK :  7
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 42.50  24.25  16.25  20.25  18.75  23.50    2.52   9.95   3.50   6.02   5.12   7.55


MAJOR : LIBRARY TECH                             MAJOR CODE : 25      NUMBER :   2       RANK :  8
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 44.50  25.00  22.00  19.00  22.00  23.00    2.12   1.41   2.83   1.41   7.07   1.41


MAJOR : SCIENCE MATH & ENGINEERING               MAJOR CODE : 40      NUMBER : 157       RANK :  9
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 44.24  25.89  20.73  21.88  18.18  22.55    9.42   7.82   6.02   8.23   5.83   9.36
```

```
MAJOR : GENERAL TECH                          MAJOR CODE : 21      NUMBER :   4      RANK :  10
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
 34.75  16.50  13.00  17.75  17.75  22.50  14.41  11.09   8.12  13.15   3.59   7.33


MAJOR : DENTAL HYGIENE                        MAJOR CODE : 13      NUMBER :  12      RANK :  11
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
 48.83  24.50  20.42  22.50  14.67  22.42   5.65  10.43   3.68   8.21   4.98   6.32


MAJOR : MECHANICAL-ELECT TECH                 MAJOR CODE : 27      NUMBER :  24      RANK :  12
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
 40.83  21.88  20.58  19.58  20.29  22.38   8.26   8.03   6.48   8.83   5.76   7.96


MAJOR : MUSIC                                 MAJOR CODE : 30      NUMBER :  21      RANK :  13
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
 44.33  22.43  17.52  19.81  16.95  21.67   6.95   8.23   5.58   6.58   5.51   8.49


MAJOR : ACCOUNTING                            MAJOR CODE :  1      NUMBER :  55      RANK :  14
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
 44.53  25.09  21.53  24.49  15.45  21.45   7.49   7.91   5.75   8.12   5.51   8.32


MAJOR : DATA PROCESSING                       MAJOR CODE : 11      NUMBER : 144      RANK :  15
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
 42.15  22.78  19.38  21.44  16.56  20.99   8.62   8.56   6.26   8.30   6.03   9.15


MAJOR : MANAGEMENT                            MAJOR CODE : 26      NUMBER :  25      RANK :  16
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
 41.40  24.00  17.12  19.48  14.16  20.76  10.33   9.37   6.19   9.82   5.72   9.79


MAJOR : GENERAL STUDIES                       MAJOR CODE : 20      NUMBER :  33      RANK :  17
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
 43.33  25.79  18.45  22.79  16.48  20.64  10.24   9.05   5.82   9.63   5.25   9.64


MAJOR : BUSINESS (GENERAL)                    MAJOR CODE :  7      NUMBER : 254      RANK :  18
 <----------- AVERAGES ------------>  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
 42.52  23.98  19.15  22.67  15.81  20.51   9.66   8.19   6.37   8.78   5.90   8.68
```

```
MAJOR : THEATRE ARTS                          MAJOR CODE : 43      NUMBER :   8        RANK :  19
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 48.50 32.63 21.88 16.88 17.25 20.50    4.44   4.53   3.27   5.14   5.04   9.15

MAJOR : FAMILY & CONSUMER SCI                 MAJOR CODE : 18      NUMBER :   4        RANK :  20
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 43.75 24.75 16.75 18.25 13.75 20.50   10.21   8.06   6.90   7.27   1.71  10.08

MAJOR : BOOKKEEPING & OFFICE MANAGEMENT MAJOR CODE :  6      NUMBER :   5        RANK :  21
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 39.60 27.20 19.80 23.80 14.00 20.40   12.40   7.79   2.68  10.71   5.39   5.94

MAJOR : PHOTOGRAPHY                           MAJOR CODE :  9      NUMBER :   9        RANK :  22
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 41.00 23.33 16.78 18.78 15.56 20.11    9.53   9.38   8.53  10.29   4.69   9.73

MAJOR : ADVERTISING                           MAJOR CODE :  3      NUMBER :   2        RANK :  23
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 44.00 29.50 15.50 33.50 18.00 20.00    1.41   0.71   3.54   0.71   8.49   5.66

MAJOR : ADM OF JUSTICE                        MAJOR CODE :  2      NUMBER :  77        RANK :  24
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 39.90 22.77 16.44 19.09 16.23 19.83   11.33   8.53   6.96   8.31   5.13   8.18

MAJOR : SOCIAL SCIENCE                        MAJOR CODE : 41      NUMBER :  72        RANK :  25
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 44.00 25.43 17.64 20.36 14.83 19.78    9.23   7.94   7.45   8.76   5.49   8.77

MAJOR : LANGUAGES & LITERATURE                MAJOR CODE : 24      NUMBER :  38        RANK :  26
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 41.45 23.16 16.47 18.74 16.16 19.61   14.04   8.99   7.11   9.01   6.17   8.88

MAJOR : NOT LISTED                            MAJOR CODE : 47      NUMBER : 210        RANK :  27
 <------------ AVERAGES ------------->   <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 38.73 20.77 16.73 18.78 15.85 19.57   11.33   8.98   7.17   9.36   5.68   9.12
```

```
MAJOR : SOCIAL SERVICES ASSISTING          MAJOR CODE : 42      NUMBER :   4      RANK :  28
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 39.25  15.00  15.75  19.50  10.75  19.50    1.89   1.83   4.35   5.45   5.19   4.20

MAJOR : OFFICE ADM-LEGAL SECRETARIAL       MAJOR CODE : 35      NUMBER :   6      RANK :  29
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 47.50  24.67  18.17  27.17  13.50  19.33    5.01   4.84   4.62   3.25   2.88   7.06

MAJOR : OTHERS                             MAJOR CODE : 46      NUMBER : 103      RANK :  30
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 40.94  22.16  16.72  20.19  14.77  18.94   10.59   9.18   6.39   8.75   5.43   8.47

MAJOR : FINE ARTS                          MAJOR CODE : 19      NUMBER :   3      RANK :  31
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 46.67  24.67  16.33  21.33  17.00  18.33    5.03   5.69   1.53   6.43   5.00   7.02

MAJOR : DENTAL ASSISTING                   MAJOR CODE : 12      NUMBER :  18      RANK :  32
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 45.67  23.39  17.72  19.39  12.44  18.33    8.38   9.46   6.23   7.41   3.97   7.16

MAJOR : ART                                MAJOR CODE :  4      NUMBER :  32      RANK :  33
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 41.72  22.97  16.38  17.97  15.16  18.16   11.25  10.19   8.27  10.66   6.70  10.82

MAJOR : OFFICE ADM-GENERAL SECRETARIAL     MAJOR CODE : 34      NUMBER :  24      RANK :  34
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 42.42  21.67  15.92  20.42  13.54  17.92    9.58   9.60   6.63   9.34   4.85   7.43

MAJOR : PHYSICAL EDUCATION                 MAJOR CODE : 37      NUMBER :  31      RANK :  35
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 40.19  22.16  18.16  22.65  14.61  17.84   11.62   8.45   6.21   8.42   5.61   9.09

MAJOR : COMMUNICATION (GENERAL)            MAJOR CODE :  8      NUMBER :  26      RANK :  36
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 49.08  25.08  18.12  23.92  14.85  17.77    6.47   7.66   5.77   7.21   4.67   7.78
```

```
MAJOR : COSMETOLOGY                         MAJOR CODE : 10      NUMBER :  22       RANK :  37
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 38.82  20.68  14.00  20.23  13.50  17.77    9.40   8.17   7.50  10.73   4.51   7.54

MAJOR : NURSING (ADN)                       MAJOR CODE : 31      NUMBER :  41       RANK :  38
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 40.83  21.61  18.17  20.83  13.78  16.88   10.90  10.00   6.63   9.72   5.40   9.39

MAJOR : NURSING (LVN)                       MAJOR CODE : 32      NUMBER :  22       RANK :  39
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 39.45  21.73  19.14  19.64  15.09  16.73   12.12  10.09   5.72   7.30   4.82   7.73

MAJOR : OFFICE ADM-MEDICAL SECRETARIAL      MAJOR CODE : 36      NUMBER :   3       RANK :  40
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 42.00  27.00  13.33  22.67  13.00  16.33    8.89   9.54   6.66   3.21   2.65   3.21

MAJOR : METALS INDUSTRY TECH                MAJOR CODE : 29      NUMBER :   5       RANK :  41
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 28.80  14.60   6.80  13.00  13.80  14.60   17.11   9.79   6.61  10.37   8.41  12.10

MAJOR : INSTRUCTIONAL ASSISTING             MAJOR CODE : 23      NUMBER :   3       RANK :  42
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 44.33  23.00  13.33  14.33  12.67  14.33    8.74   4.36   5.03  18.34  13.01  15.63

MAJOR : EARLY CHILDHOOD ED                  MAJOR CODE : 15      NUMBER :  19       RANK :  43
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 40.00  19.89  14.68  18.26  12.26  14.26   11.27   8.48   5.32  10.23   4.98   7.68

MAJOR : OFFICE ADM-CLERICAL                 MAJOR CODE : 33      NUMBER :  14       RANK :  44
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
 32.79  18.64  12.86  17.93  11.07  12.14   11.27   9.87   6.22  10.10   4.98   9.02
```

300

```
MAJOR : WOMEN'S STUDIES                     MAJOR CODE : 45      NUMBER :   1       RANK :  45
 <------------ AVERAGES ------------->    <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)   *(6)*    (1)    (2)    (3)    (4)    (5)    (6)
  0.00   0.00   0.00   0.00   0.00   0.00    0.00   0.00   0.00   0.00   0.00   0.00
```

301

```
MAJOR : TRANSPORTATION                     MAJOR CODE : 44     NUMBER :   1      RANK :  46
 <----------- AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)  *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
  0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00

MAJOR : ETHNIC STUDIES                     MAJOR CODE : 17     NUMBER :   1      RANK :  47
 <----------- AVERAGES ------------->  <------- STANDARD DEVIATION ------>
  (1)    (2)    (3)    (4)    (5)  *(6)*   (1)    (2)    (3)    (4)    (5)    (6)
  0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
```

ENGLISH 57 ESSAY EXAMINATIONS
SPRING 1983

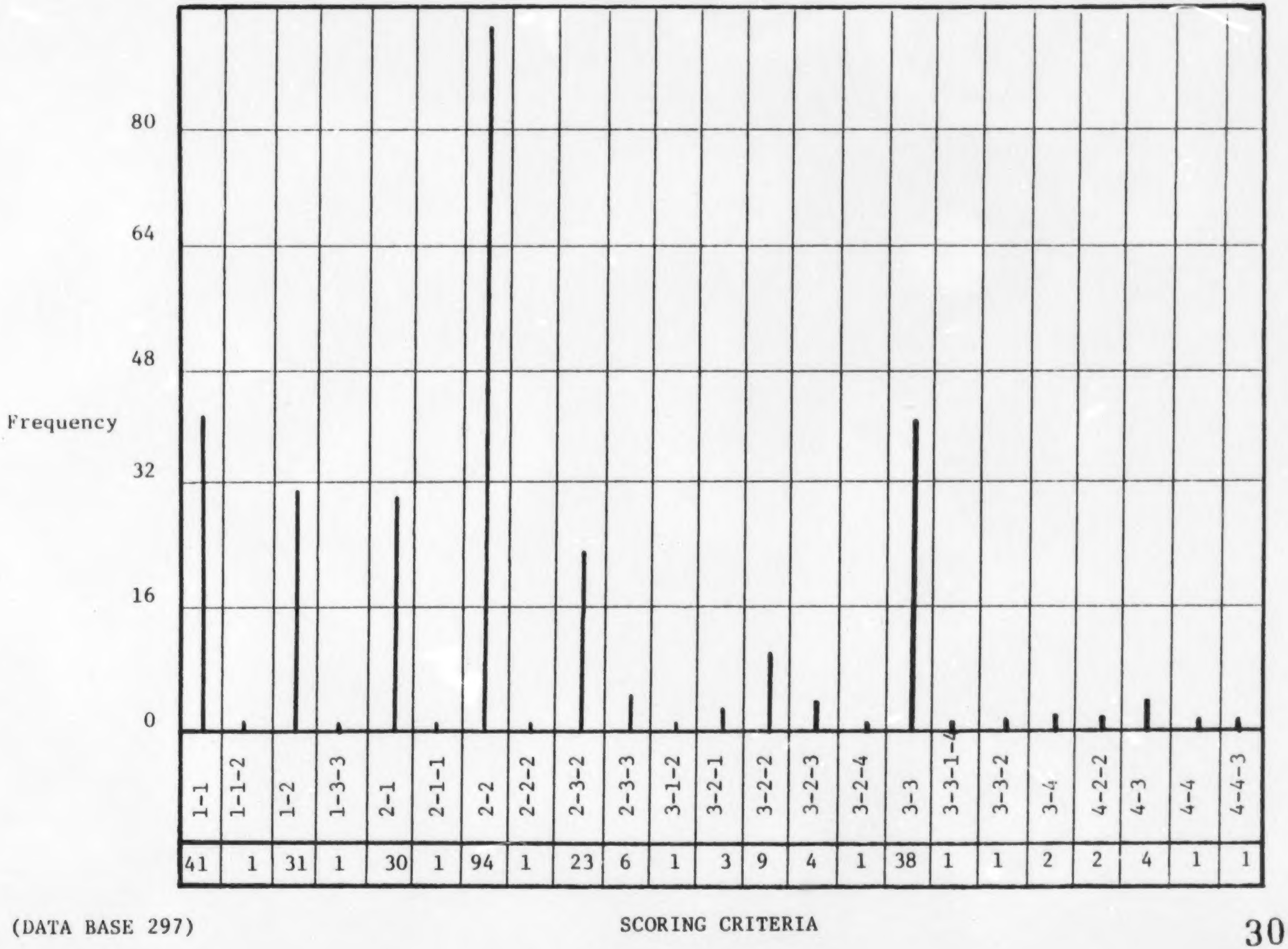
The administration of the exit essay in all English 57 classes continues to reveal that 20.9% of the students complete the essay requirements as determined by departmental standards.

The grading system requires that a students' paper receive a 3 or higher grade by at least 2 different instructors. If this does not occur, then a third reading is required.

TABLE 16

ENGLISH 57 ESSAY EXAMINATION -

FREQUENCY DISTRIBUTION OF STUDENTS ACCORDING TO GRADING CRITERIA



(DATA BASE 297)

BIOLOGY 1A AND 8A RESEARCH PROGRAM

The Biology Department in cooperation with the Reading Department continued the assessment of selected Biology classes to ascertain if overall reading and science terminology proficiency levels are related to midterm and final course grades.

The relationship of the English course placement criteria and final course grades earned in Biology 1A during the Spring 1983 semester revealed that general reading proficiency levels were directly related to academic success in Biology 1A. (Table 17) The defining of the proficiency problems of those students who earned "B" and "C" grades and who were still not eligible for English 57 or 1A could be related to the lack of information about student movement through the English Department course sequence. Only original Assessment scores can be retrieved from the raw data base.

When an analysis of the specific reading proficiencies revealed by the McGraw-Hill Reading Test for Biology 1A and 8A were evaluated, it was found that there were marked reading skill differences between the students who enrolled in these courses. (Table 18) A total of 20.7% or 55 students of this combined group were functioning in the 0-32%ile level.

If one can accept that the McGraw-Hill and the Stanford Test of Academic Skills predict similar reading proficiencies, then the student in the lower reading proficiency levels should have been redirected into Biology courses more commensurate with abilities.

This generalization was further strengthened by a comparision of the results of the three Biology 1A examinations administered in that semester.

The students earning the highest grades on the midterms had the highest McGraw-Hill Reading Test scores. Fluctuation in the "D" and "F" grade categories may reflect the grading policy factor influenced by such components as attendance, etc.

This type of information again points out the need for redirection or at least an increase in the tutorial support available to students who are shown to have insufficient academic skills to perform successfully in a transfer Biology course.

The success of students on the first examination in the Biology 8A course is revealed in Table 19B. There is the same parallel which existed for Biology 1A. Those students possessing the higher reading proficiency levels earned the highest grades in the first Biology 8A examination.

The results in Table 20 confirmed the need for a Science component. Students who had a deficiency in nomenclature tended to receive lower grades in Biology.

There is growing evidence that students whose academic reading performance level falls below the 13th year grade level should first be exposed to a pre-transfer Biology course which includes both the study and nomenclature skills which are needed in preparation for the advanced Biology courses.

TABLE 17

BIOLOGY 1A STUDENTS ELIGIBLE FOR ENGLISH 57 AND 1A

SPRING 1983

DISTRIBUTION BY FINAL GRADE

Final Grade	Eligible for English 57 & 1A	Not Eligible for English 57 & 1A
A *(5)	**5 ***(100.0%)	-
B (16)	12 (75.0%)	4
C (7)	3 (42.9%)	4
D (6)	2 (33.3%)	4
F (8)	3 (37.5%)	5
INC (1)	1 (100.0%)	-

*Indicates total number assessed.

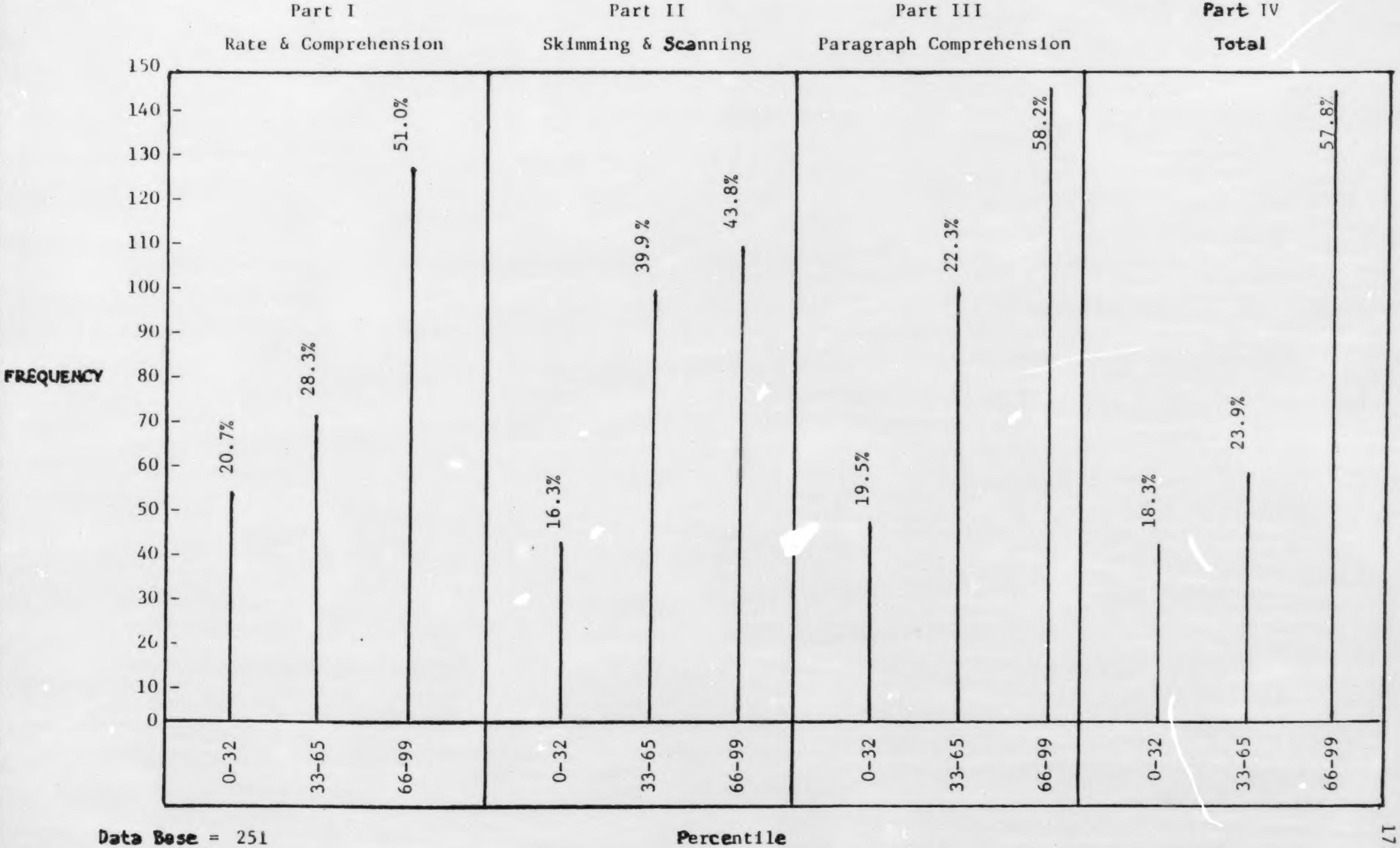
**Indicates total number of students eligible for English 57 or 1A.

***Percent indicates number of assessed students eligible for English 57 or 1A.

TABLE 18

MCGRAW-HILL READING LEVELS FOR BIOLOGY 1A & 8A

FALL 1983

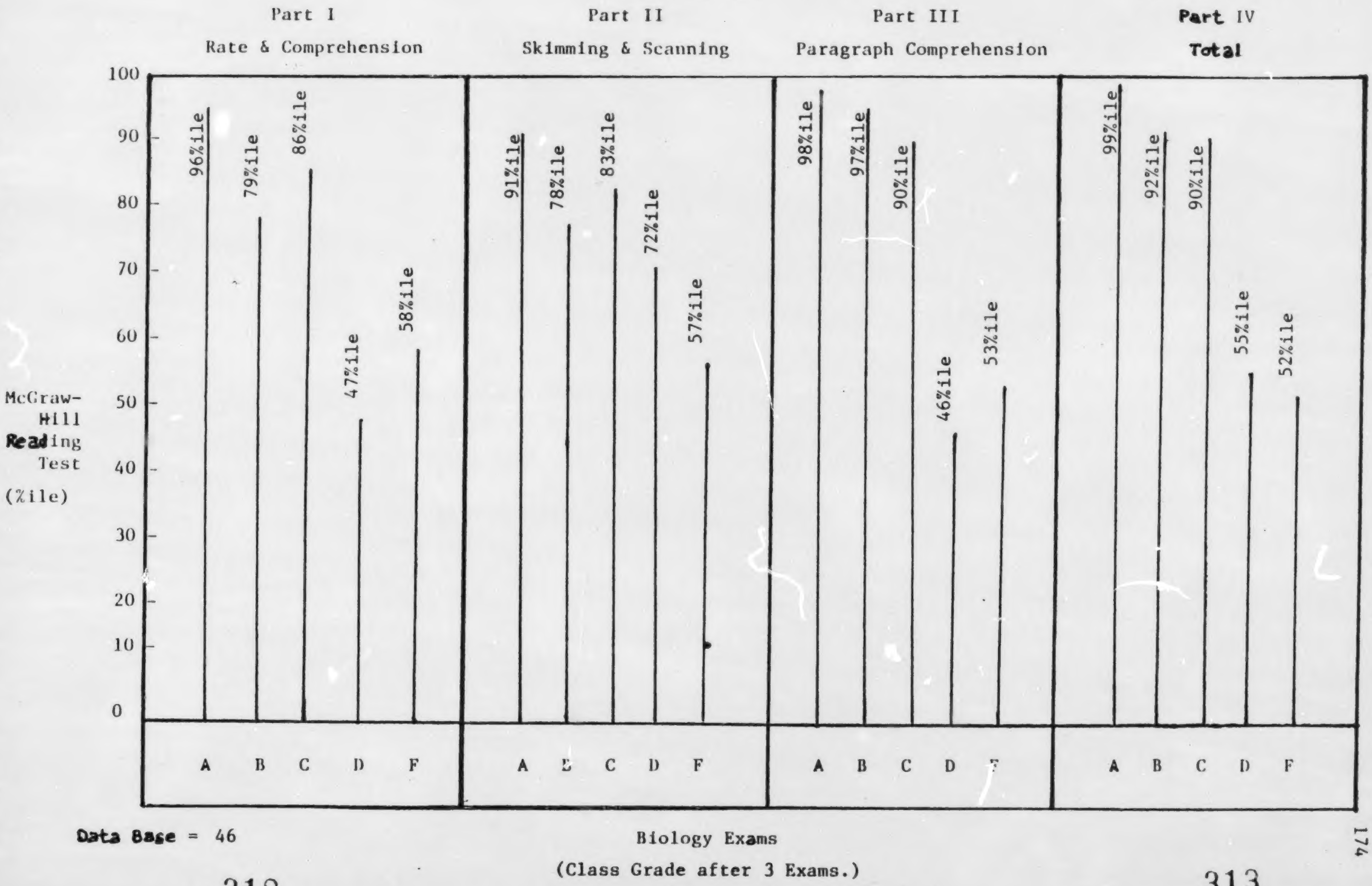


Data Base = 251

TABLE 19A

COMPARISON OF 1st THREE BIOLOGY 1A EXAMS. WITH %ILE
ON MCGRAW-HILL READING TEST

FALL 1983

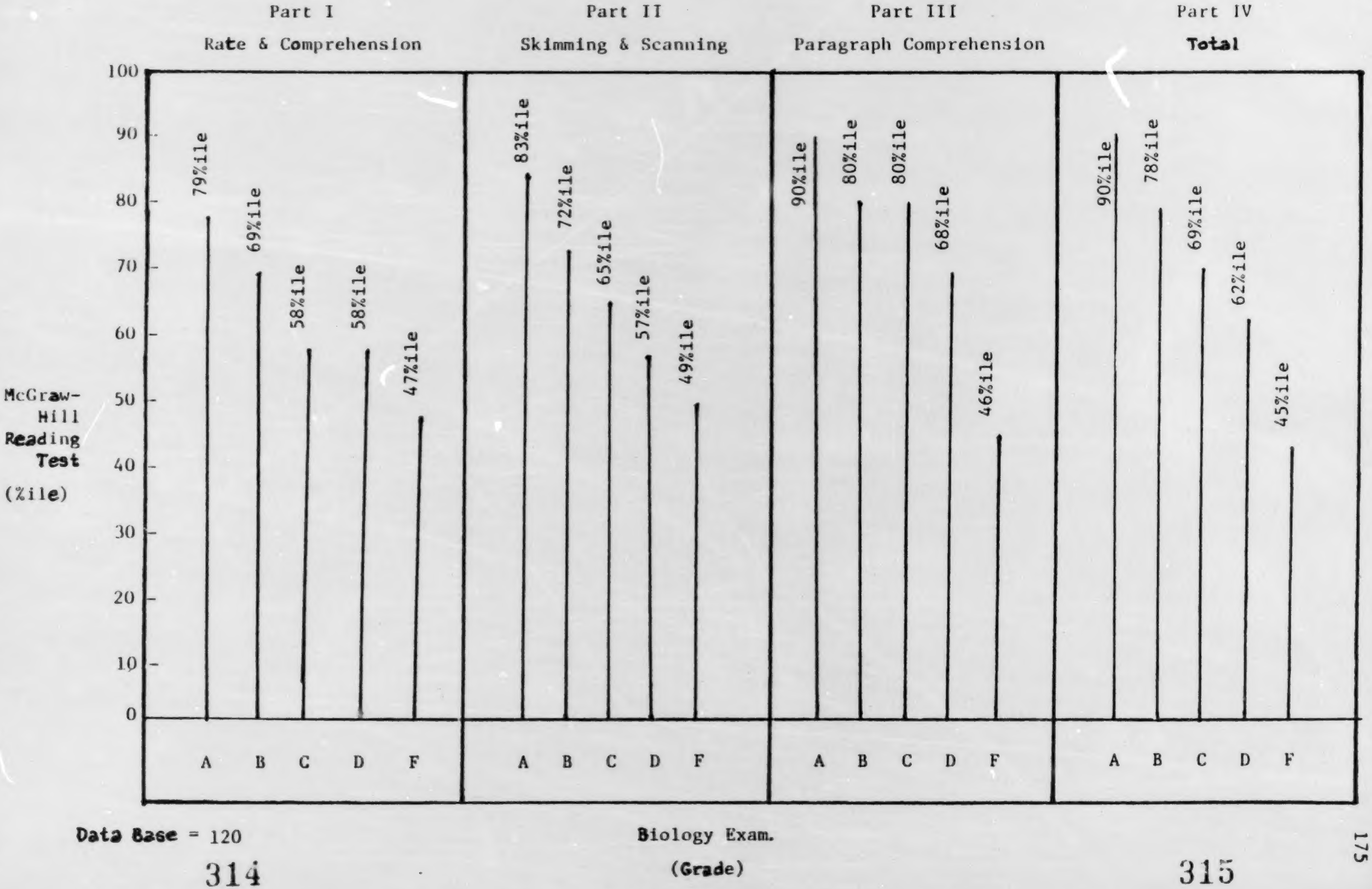


Data Base = 46

TABLE 19B

COMPARISON OF 1st BIOLOGY 8A EXAM. WITH %ILE ON MCGRAW-HILL READING TEST

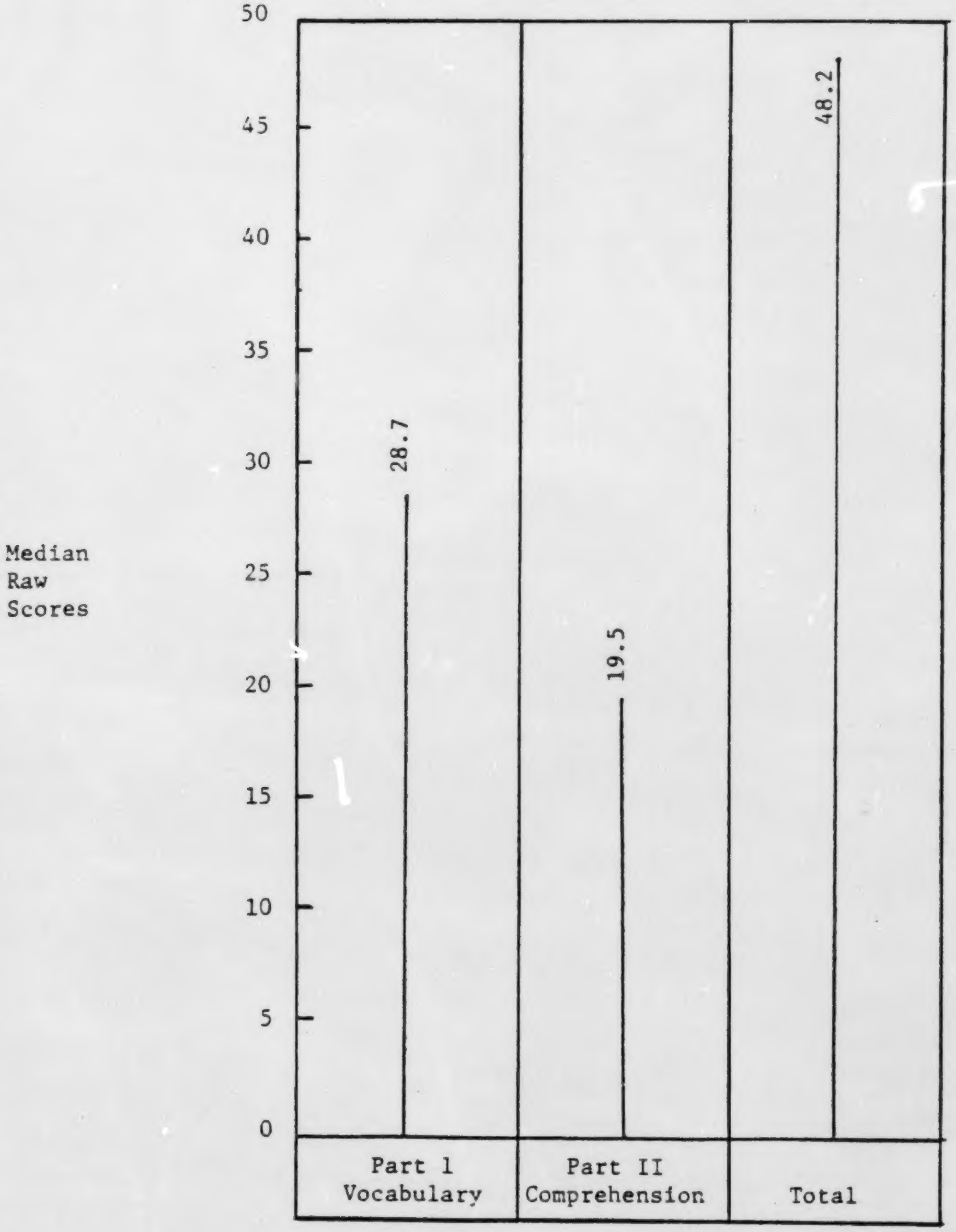
FALL 1983



Data Base = 120

TABLE 20

S.T.E.P.* SCIENCE RESULTS FOR BIOLOGY COURSES -
MEDIAN RAW SCORE OF VOCABULARY, COMPREHENSION, AND TOTAL
FALL 1983



DATA BASE = 80

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*Sequential Test of Educational Progress

EVALUATION OF ENGLISH 70
SPRING 1983

While 72 (63.2) of the students enrolled in English 70 courses received credit grades, there were only 37 (67.3) who showed an increase in reading proficiency levels when assessed by the Nelson Reading Test and the T.A.B.E. (Test of Adult Basic Education). The TASK (Stanford Test of Academic Skills) scores had 42 (45.7%) students tranferring to the next reading proficiency level (English 71).

Again there seems to be a problem with which test should be used for detecting those skills needed for advancement. Previous research has shown that the T.A.B.E. and TASK instruments seem to test for the same adult reading proficiency level.

There seems to be a need for more diagnostic information in the original placement instrument (TASK). The new E and F forms of the TASK should fill this need but implementation is dependent on upgrading of computer capability.

TABLE 21

ENGLISH 70 FINAL GRADES (SIX SECTIONS)

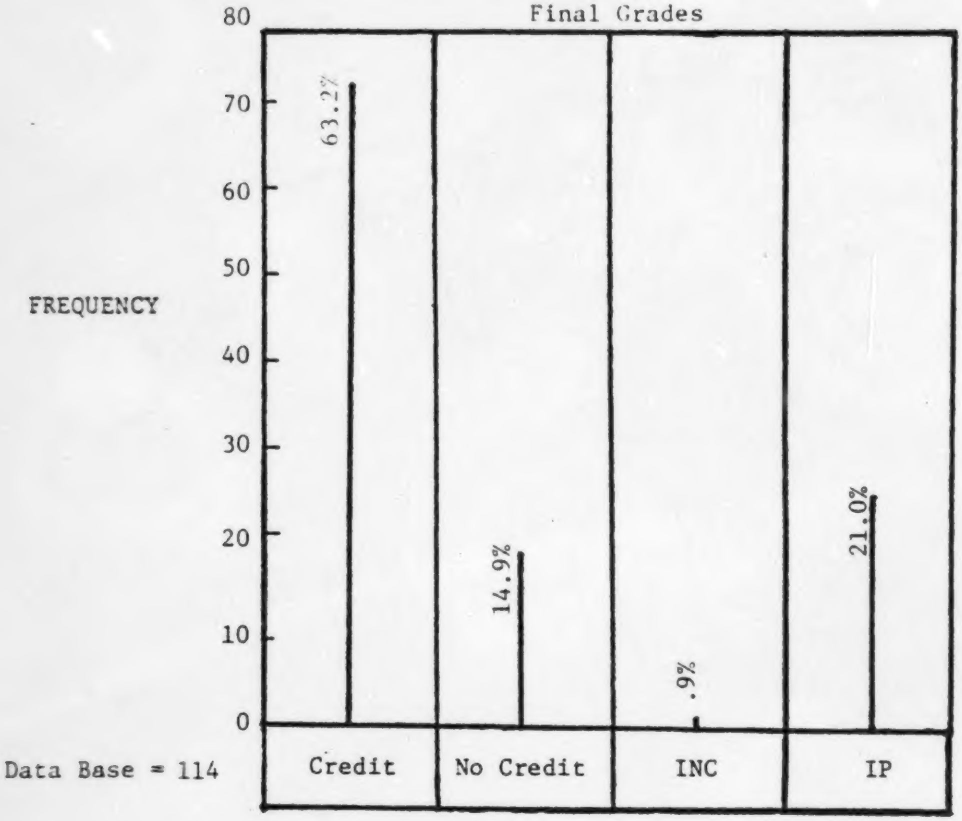
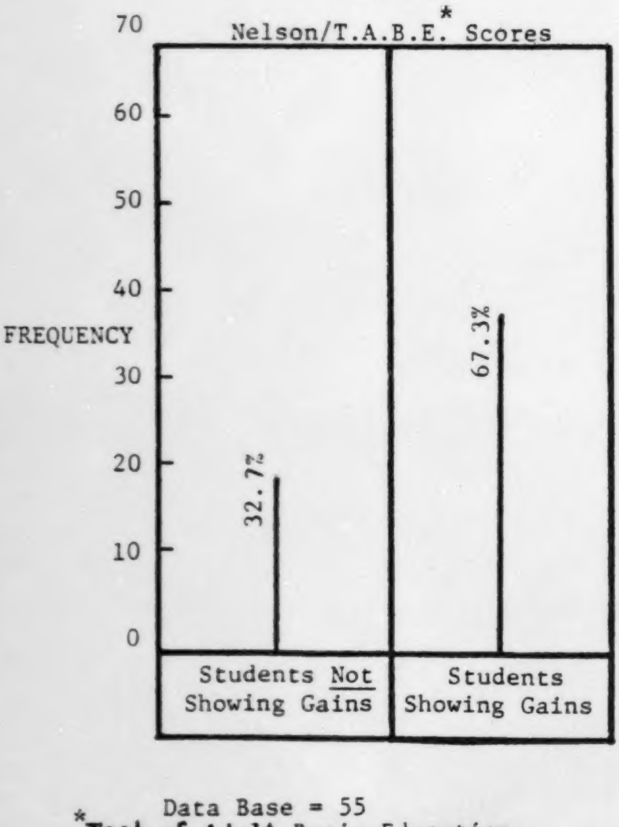
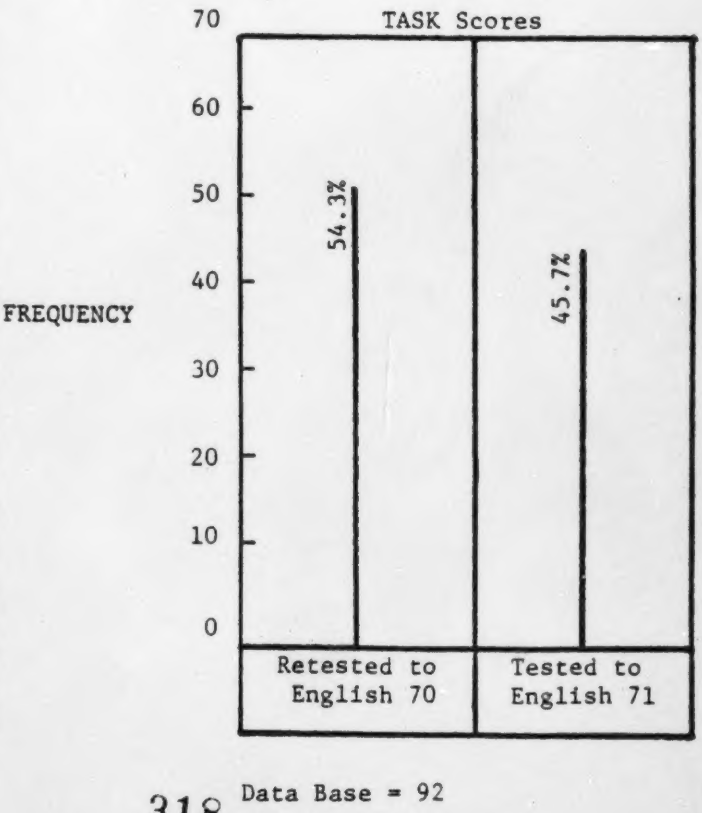


TABLE 22



*Test of Adult Basic Education

TABLE 23



ANALYSIS OF THE UTILIZATION OF TUTORIAL SUPPORT EFFORTS AS RELATED TO READING GRADE LEVELS

FALL 1983

An attempt was made to define the needs of students enrolled in selected business courses who were participating in tutorial support services during the Fall 1983 semester.

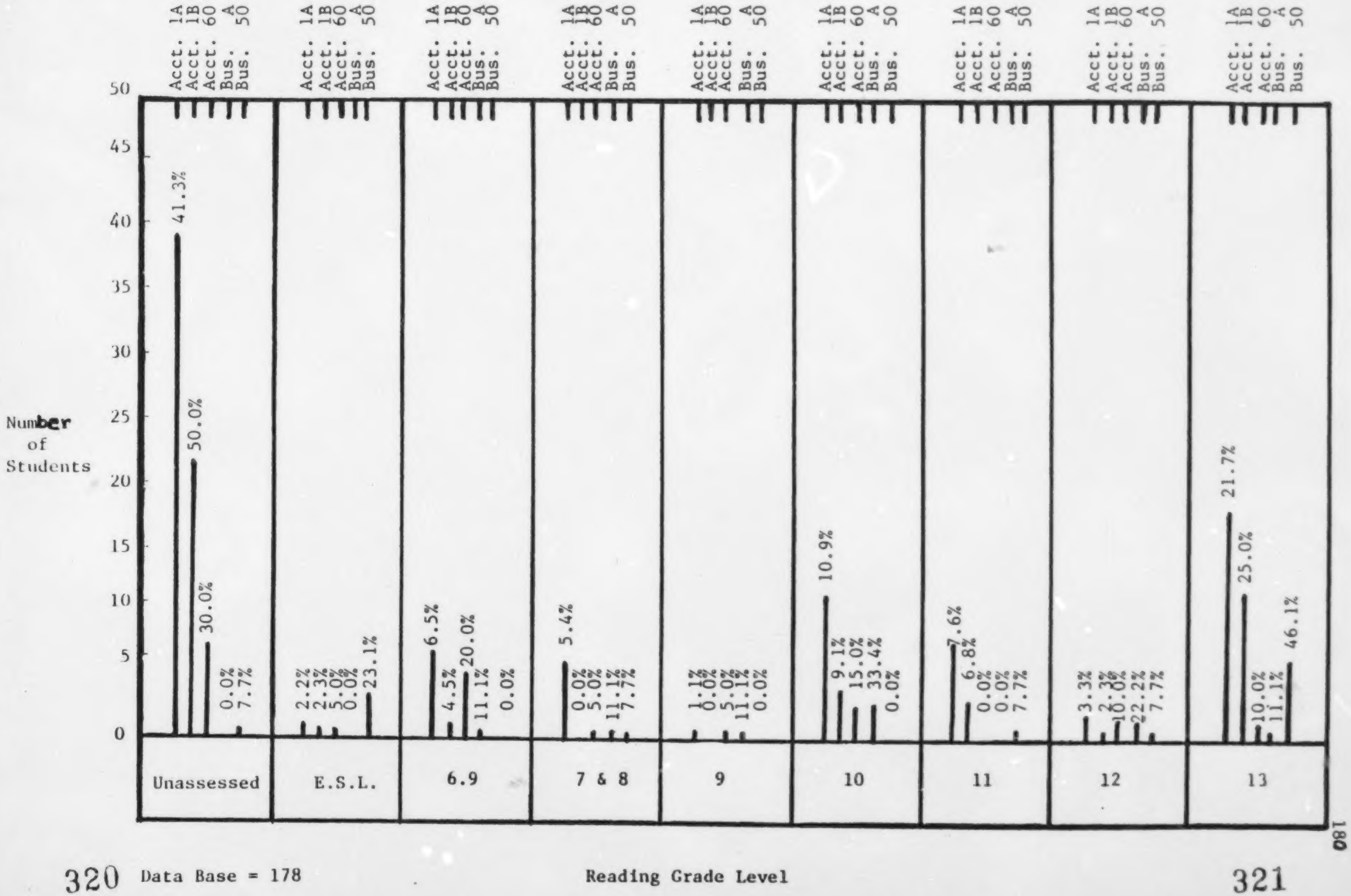
Selected Business Division courses were the first such area to be included in this type of survey.

Figures seem to point to a need for additional assessment for students enrolling in the Accounting area. Past research figures has shown that the 13th year reading proficiency level is needed for satisfactory academic success in Accounting 1A courses.

The current financial restrictions which have been placed on the amount of tutorial monies, supports the concept that all students who wish tutorial help should be assessed. The accountability level of such a program should increase if students who are reading at least two years below the needed 13th year proficiency level would receive a priority rating for tutorial help.

TABLE 24

USE OF TUTORIAL SUPPORT RESOURCES IN SELECTED BUSINESS DIVISION COURSES ACCORDING TO READING GRADE LEVELS



Data Base = 178

ANALYSIS OF READING GRADE LEVELS IN SELECTED HISTORY 17 AND 18 COURSES

FALL 1983

There was an expressed need to evaluate reading proficiency levels in three sections of transfer History courses. To meet this need, students on class rosters were matched to reading grade levels.

In Fall semester 1983 59.3% students enrolled in History 17 and 57.1% in History 18 were assessed.

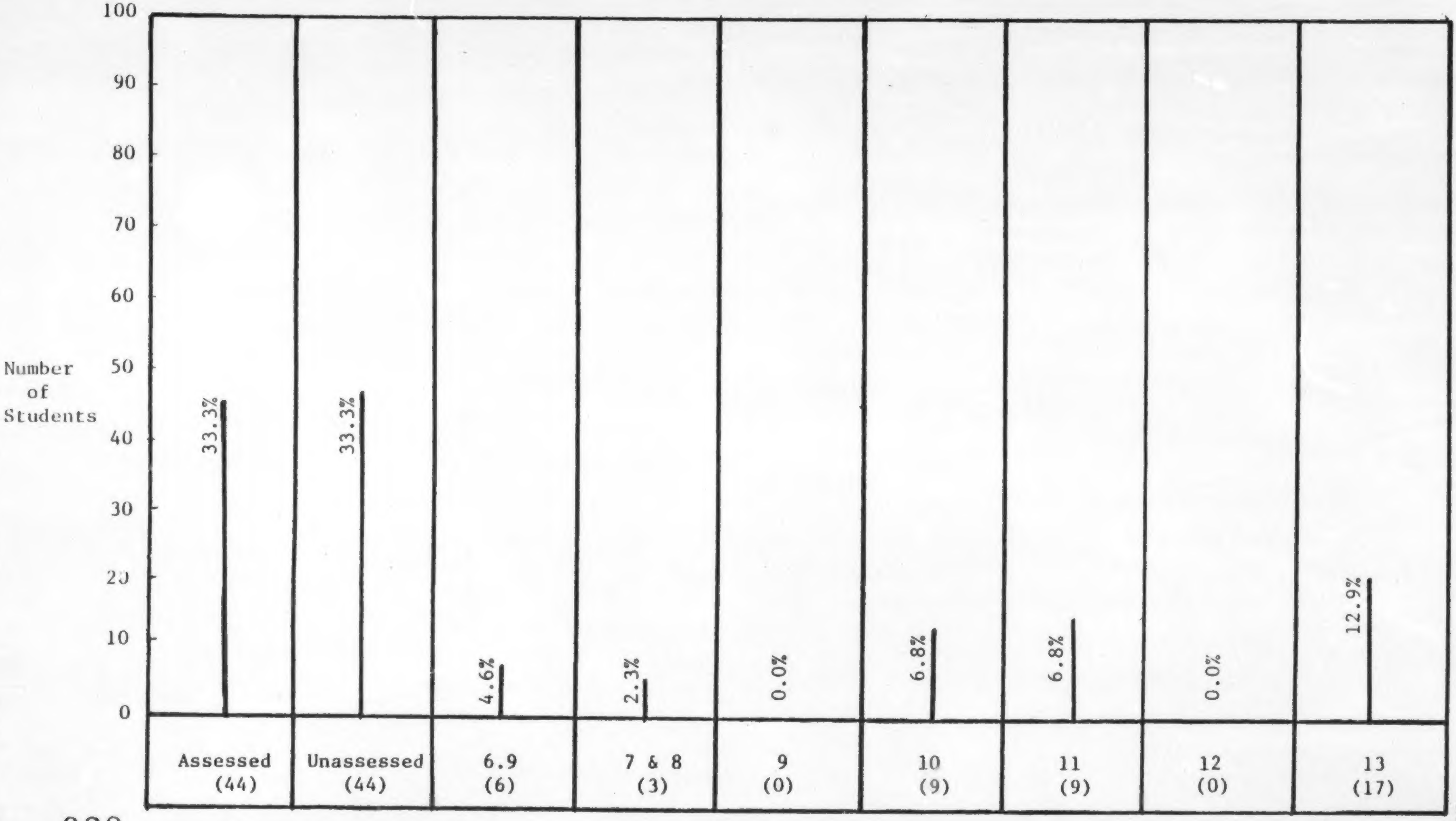
The research based on one History 17 course revealed that 18 or 41% of the assessed students had reading proficiencies at least 2 or more years below the 13th year grade level. In the History 18 courses included in the research there were 29 or 28.3% in this category.

Little is known about the proficiency levels of the unassessed students. Previous research has shown that unassessed students tend to drop or change classes more often than do the assessed students. The nature of the "drop" student in History might well be a subject of future research.

TABLE 25A

READING GRADE LEVEL ANALYSIS - HISTORY 17 (One Section)

FALL 1983



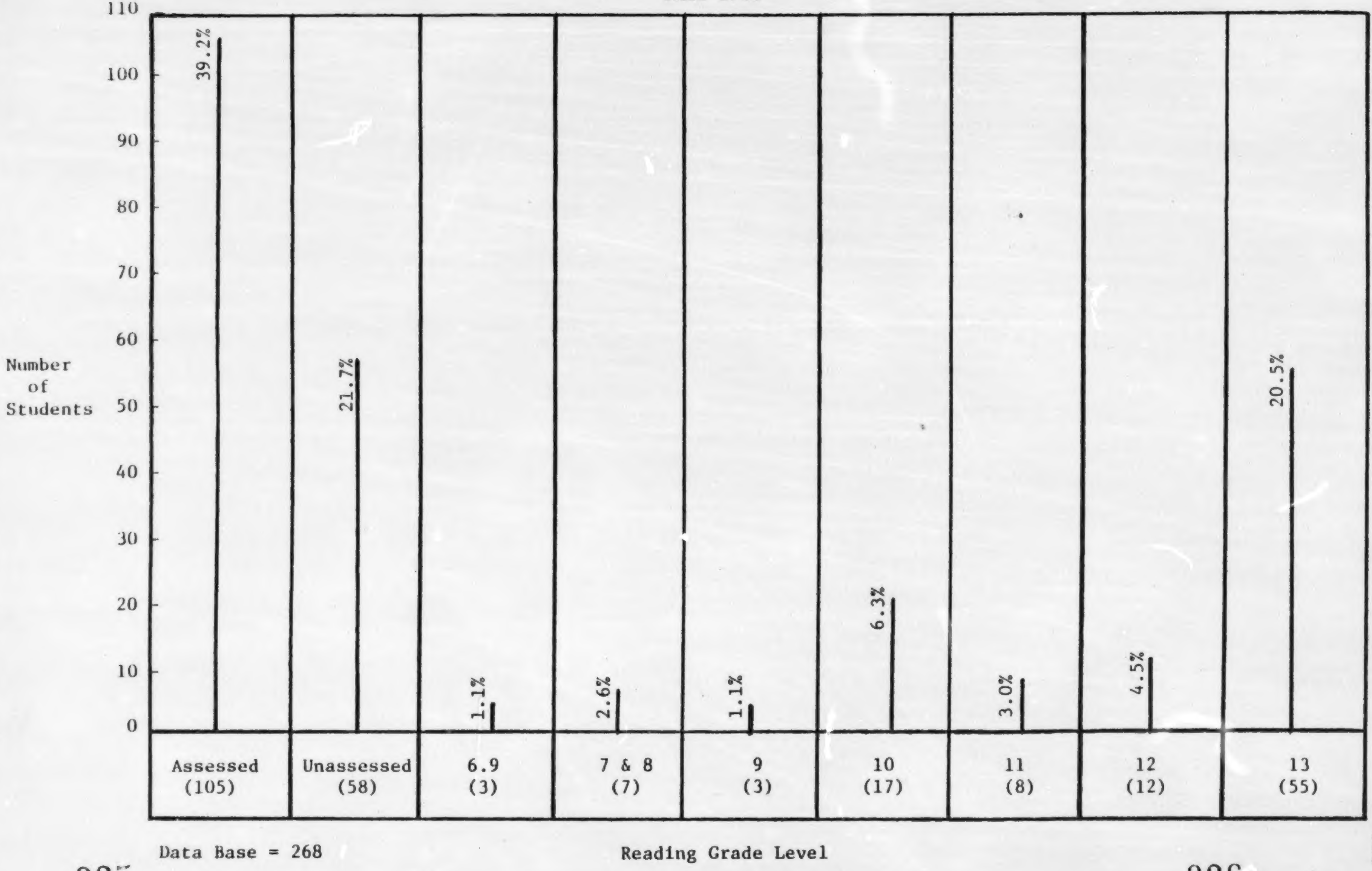
Data Base = 132

Reading Grade Level

TABLE 25B

READING GRADE LEVEL ANALYSIS - HISTORY 18 (Two Sections)

FALL 1983



Data Base = 268

ANALYSIS OF AVERAGE MICHIGAN SCORES IN ENGLISH AS A SECOND LANGUAGE BY CLASS LEVELS AND BY GRADES

SPRING 1983

Research has continued into the correlation of Michigan Test of English Language Proficiency scores and final grades earned by students enrolled in E.S.L. courses.

In E.S.L. a minor fluctuation has occurred in the highest score receiving the highest grade. This was not true in E.S.L. 2, but appears again in E.S.L. 11.

The E.S.L. 3 class grades have remained relatively the same as was found in the Fall semester 1982 research.

There has been a slight reduction in the raw scores needed for an "A" in E.S.L. 4 and 5. In the Fall 1982 period the "A" student in E.S.L. 4 required a 75.7 raw score while in Spring 1983 this fell to 74.5. The "A" student in E.S.L. 5 required an 84 score in Fall semester 1982 but needed a raw score of 83.3 in Spring semester, 1983.

Other fluctuations for the "B" and "C" grade students appeared in E.S.L. 3. The Michigan score of the "B" student dropped by 3.6 points.

The number of students involved in the data base dropped by 60 since the Fall semester 1982.

TABLE 26

COMPARISON OF AVERAGE MICHIGAN SCORES IN ENGLISH AS A SECOND LANGUAGE (E.S.L.) CLASSES BY CLASS LEVELS AND BY GRADES

DISTRIBUTION ACCORDING TO COMPOSITE CONVERTED SCORES

CLASSES	A	B	C	D	NC	INC	CP****
E.S.L. 1	***55.8	57.1	59.5	54.6	55.3	-	-
**(58)	*(12)	(22)	(8)	(8)	(8)	-	29
E.S.L. 2	57.3	57.1	55.1	58.9	53.1	-	-
(55)	(3)	(14)	(19)	(7)	(12)	-	29
E.S.L. 11	56.8	55.7	58.1	53.7	57.6	-	-
(57)	(6)	(23)	(18)	(3)	(7)	-	40
E.S.L. 3	-	73.8	75.6	75.4	72.0	-	-
(20)	-	(9)	(5)	(5)	(1)	-	77
E.S.L. 4	74.5	73.8	73.8	79.0	74.5	-	-
(20)	(4)	(6)	(6)	(2)	(2)	-	65
E.S.L. 5	83.3	83.2	-	83.8	80.0	-	-
(13)	(3)	(5)	-	(4)	(1)	-	23

*The enclosure in parentheses under each average score indicates the number of students who received that grade.

**Indicates total number assessed

***Indicates average scores.

****CP stands for "Class Placement." This number indicates the students who were placed in the class by promotion or by waiver.

ANALYSIS OF AVERAGE TASK SCORES WITH GRADES IN HIGHER EDUCATION LEARNING PACKAGE (H.E.L.P.) COURSES

SPRING 1983

There has been an increase in both reading and English proficiency levels needed by academically successful students enrolled in the H.E.L.P. program. The needed average reading raw score for a "C" or better grade has increased to 48.1. The English raw score has increased from 34.4 to 39.1. In grade levels the reading score reflected an increase from the 9.9 grade levels in Fall 1982 to a 10.5 reading grade level in Spring 1983. The English raw scores could be equated to the 7.9 grade level in Fall 1982 and an 8.9 grade level in Spring 1983.

The H.E.L.P. program has attained one of the highest percentages of assessed students. This percentage has risen to 99.1%.

TABLE 27

COMPARISON OF AVERAGE TASK SCORES WITH GRADES IN HIGHER EDUCATION LEARNING PACKAGE (H.E.L.P.) COURSES

DISTRIBUTION ACCORDING TO READING SCORES

H.E.L.P. CLASSES	A	B	C	D	NC	INC	UNASSESSED	PERCENT ASSESSED
**(110)	***47.6	49.0	48.1	47.7	45.7	37.3	-	-
	*(10)	(21)	(38)	(3)	(30)	(8)	(1)	99.1

DISTRIBUTION ACCORDING TO ENGLISH (COMPOSITION) SCORES

H.E.L.P. CLASSES	A	B	C	D	NC	INC	UNASSESSED	PERCENT ASSESSED
(107)	43.3	41.5	39.1	33.7	33.2	33.1	-	-
	(10)	(21)	(36)	(3)	(30)	(7)	(4)	96.4

H.E.L.P. CLASSES INCLUDED IN THE ABOVE DISTRIBUTION

Psychology 1
7350-09

English 56
2912-16

English 71
2923-06

Human Development 1
4425-01

*The enclosure in parentheses under each average score indicates the number of students who received that grade.

**Totals include number enrolled in all classes. Individual students may be enrolled in more than one class.

***Indicates average score.

COMPARISON OF AVERAGE TASK SCORES TO GRADES IN SPANISH COURSES

SPRING 1983

An attempt was made in the Spring semester 1983 to ascertain if TASK reading scores parallel academic success in selected Spanish courses.

The assessed students in Spanish 1A who received "A" grades had the highest average reading score. The "B" and "C" students were lower as were the "D" and "F" students. The "drop" student in Spanish 1A had higher reading proficiency levels than those who received "B" and "C" grades. Reasons for dropping are still unknown.

This same phenomenon existed in both Spanish 1A and 2A, but the small data base may have been a factor. The numbers assessed were relatively small - 37% in Spanish 1B and 18% in Spanish 1A - but department changes for Spring 1984 require that all students who have had prior language courses or practical experience with a language will be assessed and placed accordingly.

When the informational data base is expanded by objective information derived from the TASK and the Cooperative Foreign Language Test, then cutoffs and other placement criteria will be evaluated and correlated with student success.

TABLE 28

AVERAGE TASK READING SCORES TO MIDTERM GRADES IN SPANISH CLASSES BY CLASS LEVELS

	DISTRIBUTION ACCORDING TO READING SCORES						
	A	B	C	D	F	DROPPED	UNASSESSED
Spanish 2A	-	-	***55.5	52.5	51.0	-	-
**(38)	-	-	*(4)	(2)	(1)	-	(31)
Spanish 1B	-	67.0	48.0	53.0	48.0	-	-
(19)	-	(3)	(1)	(1)	(2)	-	(12)
Spanish 1A	71.5	57.0	57.2	45.5	48.0	58.0	-
(60)	(2)	(3)	(5)	(2)	(6)	(8)	(34)

*The enclosure in parentheses under each average score indicates the number of students who received that grade.

**Indicates total number assessed.

***Indicates average scores.

WAIVERS
FALL 1983

There was a total of 305 waivers for the Fall 1983 semester. The 44.5% increase reflects the widening use of assessment/placement activity on campus.

The waiver process utilizes transcripts, tests other than the TASK, and other criteria such as related work experience which is used extensively in the Occupational Technology area. The latter category seems to be the most effective placement factor when related to student success. (Table 29A)

The use of transcripts or placement scores from other colleges do not seem to be effective in predicting student success. Only 14 or 39% of those students were making satisfactory progress at the eighth week. (Table 29B)

Spanish placement, E.S.L. (English as a Second Language), M.E.T. (Mechanical-Electrical Technology), and Aeronautics seem to have the most effective waiver process.

There is a need to research the impact of recommended placement activities in the mathematics area, but the process now used is not sufficiently comprehensive to derive accurate research.

TABLE 29A

NATURE OF WAIVERS

	Took prerequisite course at S.C.C.	Took prerequisite course at another college	A.C.T. - S.A.T. T.O.E.F.L.	Placement Exam.
ENGLISH & LITERATURE				
English 1B & Literature	36	47		
English 1A	20	53	12	
" 57	18	12		
" 56	12	6		
" 55	1	2		
" 53		1		
Reading	11	10		
E.S.L.	4	4	14	
FOREIGN LANGUAGE				
Spanish	12	4		
French	9	1		
BUSINESS ENGLISH				
Business A	1	1		
" 50	1	1		
ALLIED HEALTH				
L.V.N.		11		
D.A.		1		
TOTAL	125	154	26	

TABLE 29B

ANALYSIS OF STUDENT SUCCESS AS THE RESULT OF WAIVERS

		PASSING	NOT PASSING	DROPPED	NEVER ENROLLED
English (Comp.)	(36)	14	9	11	2
Reading	(4)			1	3
Spanish Placement	(8)	8			
French Placement	(4)	2		2	
E.S.L.	(11)	8	1	1	1
M.E.T.	(6)	6			
Drafting Tech.	(1)			1	
Math.	(3)	2	1		
Business 50	(2)		1		1
Business A	(1)	1			
Typing	(2)	1			1
Aeronautics	(3)	3			
Data Processing 5	(1)		1		
TOTAL		45	13	16	8

ADDENDUM

The Assessment programs at Sacramento City College and at the other colleges in Los Rios are entering a new phase of cooperation which could save the District financial and human resources.

The increase in student retention is beginning to add not only accountability but also needed finances which are derived when more students are retained in courses.

The District is approaching the issue of who shall be assessed. Decisions on the concept of mandatory assessment and voluntary placement may soon evolve from an operational phase into a general district policy. The major argument for this change is that if assessment is of educational value for some students then why are not all students asked to benefit equally from the process.

It may now be time to dignify assessment in Los Rios by removing the financial support base from Block Grant funding and thereby permit each college to establish and finance needed personnel and financial support services. This change would permit fair and adequate support for all assessment centers in the district.

Students will soon have a plethora of information about their goals and academic proficiences which was not even considered a possibility six months ago. The concept of an "educational quotient" reflects the validity and practicality of the students' self-stated goals. Students will have a period for contemplation and needed reevaluation prior to registration. This should increase the efficiency of the course selection process and increase retention.

This process becomes an even more critical component when counseling appointments and orientation are no longer available. Most students who appear late for registration fall into this category and thereby become their own "counselor."

The growth of assessment at Sacramento City College has been helped by allowing it to grow as a service. While movement has been slow and gradual in the past, the Spring 1984 registration period experienced an unexpected request on the part of faculty to accept the concept of the assessment/placement process.

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